TITLE 33

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY Part IX. Water Quality Regulations

Chapter 11 Surface Water Quality Standards

2000

Chapter 11. Surface Water Quality Standards

§1101. Introduction

- A. The purpose of this Chapter is to establish surface water quality standards which will:
- 1. provide for the protection and preservation of the abundant natural resources of Louisiana's many and varied aquatic ecosystems;
 - 2. protect the public health and welfare that might otherwise be threatened by degradation of water quality;
 - 3. protect or enhance the quality of public waters for designated uses; and
- 4. serve the objectives of the Louisiana Water Control Law and Federal Clean Water Act (hereafter referred to as the Clean Water Act.)
 - B. The water quality standards provided in this Chapter are provisions of Louisiana state regulations and consist of:
 - 1. policy statements pertinent to water quality that are necessary to achieve the objectives of the standards;
 - 2. designated uses for which waters of the state are to be protected; and
- 3. criteria which specify general and numerical limitations for various water quality parameters that are required for designated water uses.
- C. The federal regulations governing water quality standards require that states review and revise as appropriate their water quality standards every three years. In the 1989 revision of the Louisiana surface water quality standards, the segments listed in the Numerical Criteria and Designated Uses Table (Table 3) were renumbered to coincide with a new water body code system, and several new segments with corresponding criteria, including lakes, were added. Also, water quality criteria for additional toxic substances were added. Other revisions were made in sections dealing with antidegradation, exceptions, criteria, and application of standards, as well as Table 3. During 1991, two specific revisions were made to the surface water quality standards. In March 1991, five additional metals criteria were adopted and typographical error corrections were made. In October 1991, criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin for the protection of human health were adopted. In this current (1993) triennial revision of the surface water quality standards, one of the most significant revisions was the incorporation of a narrative biological criteria statement which fulfills the objectives of the Clean Water Act. Additionally, language for mixing zones was modified and/or added. Several water bodies were assigned site-specific criteria and/or uses and a subcategory of fish and wildlife propagation was defined.
- D. The water quality standards described in this Chapter are applicable to surface waters of the state and are utilized through the wasteload allocation and permit processes, to develop effluent limitations for point source discharges to surface waters of the state. They can also form the basis for implementing the best management practices for control of nonpoint sources of water pollution.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 20:883 (August 1994).

§1103. Authorization

Pursuant to the specific authorization provided for in Section 2074 B(1) of the Louisiana Water Control Law (R.S. 30:2071-2078) and in conformity with Section 303(c) of the Clean Water Act (P.L. 92-500 as amended) and 48 FR 51405, November 8, 1983, the state of Louisiana has established these surface water quality standards to prohibit, control, or abate water pollution in state waters.

AUTHORITY NOTE: Promulgated in accordance with R.S.30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989).

§1105. Definitions

Acute Toxicity—toxicity that after short-term exposure exerts lethal or other deleterious impacts on representative, sensitive organisms. For whole effluent toxicity testing, it can be defined as significantly greater toxicity than the control.

Administrative Authority—the secretary of the Department of Environmental Quality, or his or her designated representative, or the assistant secretary, Office of Water Resources, or his or her designated representative.

Ambient Toxicity—the effect measured by a toxicity test on a sample collected from a water body.

Assimilation Capacity—the ability of a water body to receive water, sediment, and other substances without incurring detrimental changes or significantly altering the community integrity.

Biological and Aquatic Community Integrity—the condition of the aquatic community inhabiting a specified habitat as measured by community structure and function.

Biological Succession—the gradual and orderly process of ecosystem or community development brought about by changes in species populations that culminates in the production of a climax characteristic of a particular geographic region.

Brackish Marshes—those areas inundated or saturated by surface water or groundwater of moderate salinity at a frequency and duration sufficient to support, and that under normal circumstances do support, emergent vegetation characterized by a prevalence of species typically adapted for life in such soil and contiguous surface water conditions. Typical vegetation would include wiregrass (Spartina patens), three-cornered grass (Scirpus olneyi), coco (Scirpus robustus), and widgeongrass (Ruppia maritima). Brackish marshes are also characterized by interstitial water salinity which normally ranges between 7 and 15 parts per thousand.

Chronic Toxicity—toxicity which after long-term exposure exerts sublethal negative effects, or which is lethal to representative, sensitive organisms.

Clean Techniques—those requirements (or practices for sample collection and handling) necessary to produce reliable analytical data in the microgram per liter (μ g/L) or part per billion (ppb) range.

Designated Use—a use of the waters of the state as established by the water quality standards provided in LAC 33:IX.1111. These uses include, but are not limited to, recreation, propagation of fish and other aquatic life and wildlife, oyster propagation, public water supply, agricultural activities, and outstanding natural resource waters.

Diffuser—a device or defined technology that provides for the rapid and efficient mixing of wastewater effluents with the receiving water so that toxic conditions and other impacts in the vicinity of the discharge are minimized.

Dissolved Oxygen—the amount of oxygen dissolved in water, commonly expressed as a concentration in terms of milligrams per liter (mg/L).

Drinking Water Supply—a surface or underground raw water source which, after conventional treatment, will provide safe, clear, potable, and aesthetically pleasing water for uses which include, but are not limited to, human consumption, food processing and cooking, and inclusion as a liquid ingredient in foods and beverages.

Effluent—wastewater discharged to the waters of the state.

Effluent Limitation—any applicable state or federal quality or quantity limitation that imposes any restriction or prohibition on quantities, discharge rates, and concentrations of pollutants discharged into the waters of the state.

Existing Use—those uses actually attained in the waterbody on or after November 28, 1975. They may or may not be designated uses.

Fecal Coliform—a gram negative, non-spore-forming, rod-shaped bacteria found in the intestinal tract of warm-blooded animals.

Fresh Warmwater Biota—those aquatic life species whose populations typically inhabit waters with warm temperatures (seasonal averages above 20°C, 68°F) and low salinities (less than 2 parts per thousand, []), including but not limited to, black basses and freshwater sunfish and catfish and characteristic freshwater aquatic invertebrates and wildlife.

Freshwater Swamps and Marshes—those areas inundated or saturated by surface water or groundwater of negligible to very low salinity at a frequency and duration sufficient to support, and that under normal circumstances do support, emergent vegetation characterized by a prevalence of species typically adapted for life in such soil and contiguous surface water conditions. Typical freshwater swamp vegetation includes bald cypress marshes and open areas within freshwater swamps would include bulltongue (Sagittaria spp.), maiden cane (Panicum hemitomon), water hyacinth (Eichornia crassipes), pickerelweed (Pontederia cordata), alligatorweed (Alternanthera philoxeroides), and Hydrocotyl sp. Freshwater swamps and marshes are also characterized by interstitial water salinity which is normally less than 2 parts per thousand.

Intermediate Marshes—those areas inundated or saturated by surface water or groundwater of low salinity at a frequency and duration sufficient to support, and that under normal circumstances do support, emergent vegetation characterized by a prevalence of species typically adapted for life in these soil and contiguous surface water conditions. Typical vegetation includes wiregrass (Spartina patens), deer pea (Vigna luteola), bulltongue (Sagittaria spp.) wild millet (Echinochloa walteri), bullwhip (Scirpus californicus), and sawgrass (Cladium jamaicense). Intermediate marshes are also characterized by interstitial water salinity which normally ranges between 3 and 6 parts per thousand.

Intermittent Stream—a water body in which natural conditions of flow, width, and depth preclude reasonable primary contact recreational water uses and the propagation of a balanced population of aquatic biota.

LC50—the numerical limit or concentration of a test material that is lethal to 50 percent of the exposed aquatic organisms within a specified period of time.

Man-made Watercourse—a ditch or canal or channelized stream created specifically and used primarily for drainage or conveyance of water.

Marine Water Biota—those aquatic life species whose populations typically inhabit waters with salinities equal to or greater than 2 parts per thousand ([]) including but not limited to characteristic fishes, invertebrates and wildlife of coastal waters and the Gulf of Mexico.

mg/L—milligrams per liter; this unit of measure is essentially equivalent to parts per million in dilute aqueous solutions.

Naturally Dystrophic Waters—waters which are stained with organic material and which are low in dissolved oxygen because of natural conditions. See LAC 33:IX.1109.C.3.

ng/L—nanograms per liter; this unit of measure is essentially equivalent to parts per trillion in dilute aqueous solutions.

Nonpoint Source—a diffuse source of water pollution that does not discharge through a point source but instead flows freely across exposed natural or man-made surfaces such as agricultural or urban runoff and runoff from construction, mining, or silviculture activities.

Office—the Office of Water Resources within the Department of Environmental Quality.

Person—any individual, municipality, public or private corporation, partnership, firm, the United States Government and any agent or subdivision thereof, or any other juridical person which shall include, but not limited to, trusts, joint stock companies, associations, the State of Louisiana, political subdivisions of the state, commissions, and interstate bodies.

Point Source—a discernible, confined, and discrete conveyance including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

Process Heat—heat derived from unnatural sources such as power plants and other industrial cooling processes.

Receiving Waters—the waters of the state into which an effluent is, or may be, discharged.

Saline Marshes—those areas that are inundated or saturated by surface water or groundwater of salinity characteristic of nearshore Gulf of Mexico ambient water at a frequency and duration sufficient to support, and that under normal circumstances do support, emergent vegetation characterized by a prevalence of species typically adapted for life in such soil and contiguous surface water conditions. Typical vegetation includes oystergrass (Spartina alterniflora), glasswort (Salicornia spp.), black rush (Juncus roemerianus), saltwort (Batis maritima), black mangrove (Avicennia germinans), and salt grass (Distichlis spicata). Saline marshes are also characterized by interstitial water salinity that normally exceeds 16 [] (parts per thousand).

7Q10 Flow—the minimum average stream flow for seven consecutive days with a recurrence interval of once every 10 years.

Surface Water—all lakes, bays, rivers, streams, springs, ponds, impounding reservoirs, wetlands, swamps, marshes, water sources, drainage systems, and other surface waters, natural or artificial, public or private, within the state or under its jurisdiction that are not a part of a treatment system allowed by state law, regulation, or permit.

Total Dissolved Solids (TDS)—the amount of solid material dissolved in water, commonly expressed as a concentration in terms of mg/L.

Total Suspended Solids (TSS)—the amount of solid material suspended in water, commonly expressed as a concentration in terms of mg/L.

Toxic Substances—elements, compounds, or mixtures that at sufficient exposure levels induce deleterious acute or chronic physiological effects on an organism.

ug/L—micrograms per liter; this unit of measure is essentially equivalent to parts per billion in dilute aqueous solutions.

Ultra-Clean Techniques—those requirements or practices necessary to produce reliable analytical data in the nanogram per liter (ng/L) or part per trillion (ppt) range.

Use Attainability Analysis—a structured scientific assessment of the factors (chemical, physical, biological, and economic) affecting the attainment of designated water uses in a waterbody. Recommendations for revision of the water quality standards may be based upon a use attainability analysis.

Wastewater—liquid waste resulting from commercial, municipal, private, or industrial processes. Wastewater includes, but is not limited to, cooling and condensing waters, sanitary sewage, industrial waste, and contaminated rainwater runoff.

Water Pollution—the introduction into the waters of the state by any means, including dredge-and-fill operations, of any substance in a concentration which tends to degrade the chemical, physical, biological, or radiological integrity of such waters,

including, but not limited to, the discharge of brine from salt domes which are located on the coastline of Louisiana and the Gulf of Mexico into any waters off said coastline and extending therefrom three miles into the Gulf of Mexico.

Water Quality Standard—a definite numerical criterion value or general criterion statement or policy statement promulgated by the administrative authority to enhance or maintain water quality and to provide for, and fully protect, the designated uses of the waters of the state.

Waters of the State (or State Waters)—all surface and underground waters and watercourses within the state of Louisiana, whether natural or man-made, including but not limited to, all rivers, streams, lakes, wetlands, and groundwaters, within the confines of the state, and all bordering waters of the Gulf of Mexico.

Wetlands—those areas inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, bottomland hardwood forests, and similar areas.

Whole Effluent Toxicity—the total toxic effect of an effluent measured directly with a toxicity test.

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HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 17:264 (March 1991), LR 20:883 (August 1994), amended by the Office of Environmental Assessment, Environmental Planning Division LR 25:2401 (December 1999).

§1107. Enforcement

- A. The standards provided in this Chapter are official regulations of the state, and any person who discharges pollutants into the waters of the state in such quantities as to cause these standards to be violated shall be subject to the enforcement procedures of the state as specified in R.S. 30:2025.
- B. Since aquatic systems receive organic and inorganic materials from natural and man-made sources and receive physical inputs from natural and man-made sources, due allowances will be made for situations where low dissolved oxygen concentrations or other water quality conditions attributable to natural sources are at variance with the standards. To allow for such situations, the numerical criteria will not be applied below the 7Q10 or other appropriate critical flow as defined in LAC 33:IX.1115.C.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 20:883 (August 1994).

§1109. Policy

Water quality standards policies concerned with the protection and enhancement of water quality in the state are discussed in this Section. Policy statements on antidegradation, water use, water body exception categories, compliance schedules and variances, short-term activity authorization, errors, severability, revisions to standards, and sample collection and analytical procedures are described.

A. Antidegradation Policy

- 1. State policy is that all waters of the state, including interstate, intrastate, and coastal waters, and any portions thereof, whose existing quality exceeds the specifications of the approved water quality standards or otherwise supports an unusual abundance and diversity of fish and wildlife resources, such as waters of national and state parks and refuges, will be maintained at their existing high quality. The state may choose to allow lower water quality in waters that exceed the standards to accommodate justifiable economic and/or social development in the areas in which the waters are located, but not to the extent of violating the established water quality standards. Appropriate use attainability analyses will be required before any lowering of water quality will be allowed. No such changes, however, will be allowed if they interfere with or become injurious to the existing water uses. No lowering of water quality will be allowed in waters where standards for the designated water uses are not currently being attained.
- 2. The administrative authority will not approve any wastewater discharge or certify any activity for federal permit that would impair water quality or use of state waters. Waste discharges must comply with applicable state and federal laws for the attainment of water quality goals. Any new, existing, or expanded point source or nonpoint source discharging into state waters, including any land clearing which is the subject of a federal permit application, will be required to provide the necessary level of waste treatment to protect state waters as determined by the administrative authority. Further, the highest statutory and regulatory requirements shall be achieved for all existing point sources and best management practices (BMPs) for nonpoint sources. Additionally, no degradation shall be allowed in high-quality waters that constitute outstanding natural resources, such as waters in the Louisiana Natural and Scenic Rivers System or waters of ecological significance as designated by the office. Those water bodies presently designated as outstanding natural resources are listed in LAC 33:IX.1123.
 - 3. An implementation plan for this antidegradation policy is provided in LAC 33:IX.1119.

B. Water Use

- 1. It is the policy of the state of Louisiana that all state waters should be protected for recreational uses and for the preservation and propagation of desirable species of aquatic biota and indigenous species of wildlife. Use and value of water for public water supplies, agriculture, industry, and other purposes, as well as navigation, shall also be considered in setting standards. The most stringent criteria specified for each parameter shall be applicable where waters are classified for multiple uses.
- 2. In applying this policy, the terms "recreational uses" and "desirable species of aquatic biota" will be given common sense applications. Recreational uses will be classified as either "primary contact" or "secondary contact." "Desirable species of aquatic biota" refers to a diverse and naturally occurring range of aquatic biota and not to species that exist in the area in question in disproportionate numbers as a result of wastewater discharges. Desirable species of fish, shellfish and other invertebrates, wildlife, and other aquatic biota will be specified as "fresh warmwater" or "marine water" species. All future designations of water uses and their associated criteria must, at a minimum, adhere to these classifications, except as provided in LAC 33:IX.1109.B.3 and C.
- 3. Designated uses which are not existing uses may be removed from water bodies if it is demonstrated through a use attainability analysis and the administrative authority determines that the designated use is not feasible because of one or more of the following reasons:
 - a. naturally occurring pollutant concentrations prevent the attainment of the use;
- b. natural, ephemeral, intermittent, or low flow conditions or water levels prevent the attainment of the use, unless these conditions may be compensated for by the discharge of sufficient volume of effluent discharges without violating water conservation requirements to enable uses to be met;
- c. human caused conditions or sources of pollution prevent the attainment of the use and cannot be remedied or would cause more environmental damage to correct than to leave in place;
- d. dams, diversions, or other types of hydrologic modifications preclude the attainment of the use, and it is not feasible to restore the water body to its original condition or to operate such modification in a way that would result in the attainment of the use;
- e. physical conditions related to the natural features of the water body, unrelated to water quality, such as the lack of a proper substrate, cover, flow, depth, pools, riffles, and the like, preclude attainment of aquatic life protection uses; or
- f. controls more stringent than those required by sections 301(b) and 306 of the Clean Water Act would result in substantial and widespread economic and social impact.
- C. Water Body Exception Categories. Poor water quality will be viewed as a problem to be solved, not as an impediment to categorizing water bodies or assigning designated uses. However, some water bodies, because of natural water quality or physical limitations, may qualify for an excepted use classification. This classification will be made on a case-by-case basis. Whenever data indicate that an excepted classification is warranted, the office will recommend the exception to the state administrative authority for approval. In all cases where exceptions are proposed, the concurrence of the regional administrator of the EPA must be obtained and the opportunity for public participation must be provided during the exceptions review process. In most cases, the proposed exception will be considered during the public participation process along with a permit application or management plan update. Exceptions are allowed for the following three categories of water bodies: certain intermittent streams, man-made water bodies, and naturally dystrophic waters. Applications for excepted water use classifications may be considered for certain water bodies which satisfy one of the following descriptions.

1. Intermittent Streams

- a. Only those streams which have seasonal no-flow conditions or water levels that preclude primary contact recreation and the propagation of desirable species of fish and wildlife will be considered for classification as intermittent. The general criteria of these standards shall apply to all water bodies classified as intermittent streams except where a particular stream is specifically exempted.
- b. An intermittent stream is defined as a water body in which natural conditions of flow, width, and depth preclude primary contact recreational water uses and the propagation of a balanced population of aquatic biota. Because of one or more of these conditions, such streams provide only an ephemeral, aquatic habitat which is not conducive to the establishment of a balanced population of aquatic biota or to recreational activities. This definition does not include those water bodies that contain enduring pools which support recreational uses and desirable species of aquatic biota, or water bodies which are subject to tidal effects and may contain standing water with no flow during periods of slack tide.
- c. For a stream to be considered for classification as intermittent, the stream must lack sufficient drainage area to maintain a perennial flow. The no-flow condition must be natural and not a result of human activities. The no-flow condition of intermittent streams is generally characterized by dry stream reaches and shallow isolated pools during summer dry weather conditions; however, the water body may exhibit flow or contain deeper pools for short periods after rainfall.

- d. No stream may be classified as intermittent without the approval of both the administrative authority and the EPA. A use attainability analysis may be conducted to gather additional water body characterization data necessary to justify an intermittent stream classification. If such a classification is justified, seasonal uses and criteria may be established.
- e. A wastewater discharge may be proposed into an approved, designated intermittent stream only if the discharge will not by itself or in conjunction with other discharges cause impairment of the applicable designated uses nor cause exceedance of any applicable general and site-specific criteria in the receiving water body, as determined in the exception approval process, nor cause exceedance of any applicable general and site-specific criteria in LAC 33:IX.1113 and 1123 in any water body which receives water from the intermittent stream.

2. Man-made Water Bodies

- a. A man-made water body is defined as a ditch, canal or channelized stream created specifically and used primarily for drainage or conveyance of water. Some natural streams have been channelized to such an extent that conveyance of water is the principal use, usually precluding reasonable primary contact recreation and balanced fish and wildlife propagation. Such natural, channelized streams may be considered for classification as man-made water bodies. The general criteria provided in LAC 33:IX.1113.B shall apply to all water bodies classified as man-made water bodies except where a particular water body is specifically exempted.
- b. For a water body to be considered for this excepted water use classification, its principal use must be drainage or conveyance of water. In addition, the water body must not be used as a source of public water supply. Some man-made water bodies that produce new aquatic habitat and subsequently are populated by desirable aquatic species and/or that have some water contact recreational use may, on a case-by-case basis, be considered under this policy. However, the physical characteristics of man-made water bodies that may fall under this exception are not conducive to the establishment of a balanced population of aquatic biota or to the full support of recreational activities.
- c. No stream may be classified as man-made without the approval of both the administrative authority and the EPA. A use attainability analysis may be conducted to gather data to justify a man-made water body classification. If the man-made classification is justified, revised water quality criteria and uses, if applicable, will be established.
- d. A wastewater discharge may be proposed into an approved, designated man-made water body only if the discharge will not by itself or in conjunction with other discharges cause impairment of the applicable designated uses nor cause exceedance of any applicable general and site-specific criteria in the receiving water body, as determined in the exception approval process, nor cause exceedance of any applicable general and site-specific criteria in LAC 33:IX.1113 and 1123 in any water body which receives water from the man-made water body.

3. Naturally Dystrophic Waters

- a. Naturally dystrophic waters are defined as waters which receive large amounts of natural organic material largely of terrestrial plant origin, are commonly stained by the decomposition of such organic material, and are low in dissolved oxygen because of natural conditions. Only those water bodies primarily affected by natural sources of oxygen-demanding substances or naturally occurring cycles of oxygen depletion will be considered for classification as naturally dystrophic waters. These water bodies typically include or are surrounded by wetlands (such as bottomland hardwood forests, freshwater swamps and marshes, or intermediate, brackish, or saline marshes) and have sluggish, low-gradient flows most of the year. Naturally dystrophic water bodies, though seasonally deficient in dissolved oxygen, may fully support fish and wildlife propagation and other water uses. Low dissolved oxygen concentrations (less than 5 mg/l) may occur seasonally during the warmer months of the year in naturally dystrophic water bodies.
- b. No water body may be classified as naturally dystrophic without the approval of both the administrative authority and the EPA. A use attainability analysis may be conducted to gather data to document the characteristics of a naturally dystrophic water body. Modified dissolved oxygen criteria and/or seasonal periods may be applicable if supported by the use attainability analysis. Applicable general and numerical criteria not specifically excepted shall remain applicable to designated naturally dystrophic water bodies.
- c. A wastewater discharge may be proposed into an approved, designated naturally dystrophic water body only if the discharge will not by itself or in conjunction with other discharges cause impairment of the applicable designated uses nor cause exceedance of any applicable general and site-specific criteria in the receiving water body, as determined in the exception approval process, nor cause exceedance of any applicable general and site-specific criteria in LAC 33:IX.1113 and 1123 in any water body which receives water from the naturally dystrophic water body.
- d. A wastewater discharge may be proposed for an approved, designated naturally dystrophic water body in a wetland only if the discharge will not by itself, or in conjunction with other discharges, cause inundation of the receiving area such that regeneration of characteristic vegetative species would be significantly reduced, will not significantly modify species composition of the receiving area, and will not increase biological succession of the receiving area above naturally occurring levels. Natural background conditions and significant changes will be determined through use attainability analyses.

D. Compliance Schedules and Variances

- 1. Upon permit issuance, modification, or renewal, compliance schedules may be incorporated into a permit to allow a permittee adequate time to make treatment facility modifications necessary to comply with water quality-based permit limitations determined to be necessary to implement new or revised water quality standards. Compliance shall be achieved at the earliest practicable time. The office will establish interim conditions which may consist of, but are not limited to, compliance schedules, monitoring requirements, temporary limits, and milestone dates so as to measure progress toward final project completion (e.g., design completion, construction start, construction completion, date of compliance).
- 2. A variance from statewide criteria may be allowed in certain cases where the appropriateness of the criteria is questionable. The variance provides a period of time during which issues concerning the appropriateness of the criteria may be resolved. A variance shall be valid for no more than three years. Any person may request that the office grant a variance. A variance may be granted only after appropriate public participation and EPA review and approval. Variances from criteria will be allowed for anticipated nonattainment of water quality standards due to one or more of the reasons listed in LAC 33:1X.1109.B.3. Other reasons for approval of a variance may be considered on a case-by-case basis.
- E. Short-term Activity Authorization. The administrative authority may exempt from water quality standards certain short-term activities that the state determines are necessary to accommodate activities, emergencies, or to protect the public health and welfare. Such activities shall not cause long-term or permanent impact on designated water uses. These activities may include, but are not limited to, mosquito abatement projects, algae and weed control projects, and fish eradication projects. No short-term activity authorization shall supersede any applicable state or federal law or regulation including permitting process or the terms or conditions of any permit.
- F. Errors. Errors resulting from inadequate or erroneous data and human or clerical errors will be subject to correction by the state, and the discovery of such errors does not render the remaining or unaffected standards invalid.
- G. Severability. If any provisions of these standards or the application of any provision of these standards to any person or circumstance is held invalid, the application of such provision to other persons or circumstances and the remainder of the standards shall not be affected thereby.

H. Water Quality Standards Revision Process

- 1. It is the position of the state of Louisiana that the standards contained herein are those that are reasonable on the basis of the actual or potential quality of the state's waters, present and future water uses, and the best practicable wastewater treatment under any conditions. However, standards are not fixed for all time, but are subject to future revision. The nature of future revisions of these standards will be strongly influenced by many factors. Among these are the following.
- a. As a downstream or bordering state in all cases involving interstate streams, Louisiana's standards will be affected by the quality of water received from its upstream and neighboring states.
- b. Because it is the state farthest downstream, Louisiana's water quality will be affected by mean low flows when interstate rivers and tributaries become subject to flow regulation and diversion projects.
- c. Changes in technology or natural conditions, or the availability of new data, may require a revision of numerical criteria at any time. Such revisions, however, will be accomplished only after proper consideration of designated water uses. Any proposed revision will be consistent with state and federal regulations.
- d. Advances in scientific knowledge concerning the toxicity, cancer potency, metabolism, or exposure pathways of toxic pollutants that affect the assumptions on which existing criteria are based may necessitate a revision of numerical criteria at any time. Such revisions, however, will be accomplished only after proper consideration of designated water uses. Any proposed revision will be consistent with state and federal regulations.
- 2. The state shall hold public hearings at least once every three years to review applicable water quality standards and, as appropriate, modify and adopt standards. The revised standards will be reviewed in accordance with the state Administrative Procedure Act (R.S. 49:950 et seq.) and appropriate EPA procedures.
- I. Sample Collection and Analytical Procedures. Procedures for collecting and analyzing samples to be used to determine whether the standards have been attained shall be subject to the following requirements as well as those specified in the office's Quality Assurance (QA) Plan for water monitoring and analysis.
- 1. Samples will be obtained at a depth or depths representative of the average water quality at the sampling station in question.
 - 2. Samples will be collected from sampling locations as necessary to assess attainment of standards.
 - 3. Collection and preservation of samples will be in accordance with accepted practices as specified in the office's QA Plan.

4. Numerical values of the various parameters will typically be determined by analytical procedures as specified in the QA Plan.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 17:264 (March 1991), LR 17:966 (October 1991), LR 20:883 (August 1994).

§1111. Water Use Designations

There are seven water uses designated for surface waters in Louisiana: primary contact recreation, secondary contact recreation, fish and wildlife propagation, drinking water supply, oyster propagation, agriculture, and outstanding natural resource waters. Designated uses assigned to each subsegment apply to all water bodies (listed water body and tributaries/distributaries of the listed water body) contained in that subsegment unless unique chemical, physical, and/or biological conditions preclude such uses. However, the designated uses of drinking water supply, oyster propagation, and/or outstanding natural resource waters apply only to the water bodies specifically named in Table 3 (LAC 33:IX.1123) and not to any tributaries and distributaries to such water body which are typically contained in separate subsegments. A description of each designated use follows.

- A. Primary Contact Recreation. Primary contact recreation is defined as any recreational or other water use in which there is prolonged and intimate body contact with the water involving considerable risk of absorbing waterborne constituents through the skin or of ingesting constituents from water in quantities sufficient to pose a significant health hazard. Examples of this type of water use include swimming, water skiing, and skindiving.
- B. Secondary Contact Recreation. Secondary contact recreation is defined as any recreational or other water use in which body contact with the water is either incidental or accidental, and in which the probability of ingesting appreciable quantities of water is minimal. Such water uses include fishing, wading, commercial or recreational boating, and any limited contact incident to shoreline activity.
- C. Fish and Wildlife Propagation. Fish and wildlife propagation includes the use of water for aquatic habitat, food, resting, reproduction, cover, and/or travel corridors for any indigenous wildlife and aquatic life species associated with the aquatic environment. This use also includes the maintenance of water quality at a level that prevents damage to indigenous wildlife and aquatic life species associated with the aquatic environment and contamination of aquatic biota consumed by humans. The subcategory of "limited aquatic life and wildlife use" recognizes the natural variability of aquatic habitats, community requirements, and local environmental conditions. Limited aquatic life and wildlife use may be designated for water bodies having habitat that is uniform in structure and morphology with most of the regionally expected aquatic species absent, low species diversity and richness, and/or a severely imbalanced trophic structure. Aquatic life able to survive and/or propagate in such water bodies include species tolerant of severe or variable environmental conditions. Water bodies that might qualify for the limited aquatic life and wildlife use subcategory include intermittent streams and man-made water bodies with characteristics including, but not limited to, irreversible hydrologic modification, anthropogenically and irreversibly degraded water quality, uniform channel morphology, lack of channel structure, uniform substrate, lack of riparian structure, and similar characteristics making the available habitat for aquatic life and wildlife suboptimal. Limited aquatic life and wildlife use will be denoted in Table 3 (LAC 33:IX.1123) as an "L."
- D. Drinking Water Supply. Drinking water supply refers to the use of water for human consumption and general household use (See definition in LAC 33:IX.1105.) Surface waters designated as drinking water supplies are identified in the numerical criteria tables; this designation does not apply to their tributaries or distributaries unless so specified.
- E. Oyster Propagation. Oyster propagation is the use of water to maintain biological systems that support economically important species of oysters, clams, mussels, or other mollusks so that their productivity is preserved and the health of human consumers of these species is protected. This use shall apply only to those water bodies named in the Numerical Criteria and Designated Uses Table and not to their tributaries or distributaries unless so specified.
- F. Agriculture. Agriculture involves the use of water for crop spraying, irrigation, livestock watering, poultry operations, and other farm purposes not related to human consumption.
- G. Outstanding Natural Resource Waters. Outstanding natural resource waters include water bodies designated for preservation, protection, reclamation, or enhancement of wilderness, aesthetic qualities, and ecological regimes, such as those designated under the Louisiana Natural and Scenic Rivers System or those designated by the office as waters of ecological significance. Characteristics of outstanding natural resource waters include, but are not limited to, highly diverse or unique instream and/or riparian habitat, high species diversity, balanced trophic structure, unique species, or similar qualities. This use designation applies only to the water bodies specifically identified in Table 3 (LAC 33:IX.1123) and not to their tributaries or distributaries unless so specified.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 20:883 (August 1994), amended by the Office of Environmental Assessment, Environmental Planning Division LR 25:2401 (December 1999).

§1113. Criteria

A. Introduction

- 1. Criteria are elements of the water quality which set general and numerical limitations on the permissible amounts of a substance or other characteristics of state waters. General and numerical criteria are established to promote restoration, maintenance, and protection of state waters. Water quality criteria describe stream uses. A criterion for a substance represents the permissible levels for that substance at which water quality will remain sufficient to support a designated use.
- 2. Quality criteria for the waters of Louisiana are based on their present and potential uses and the existing water quality indicated by data accumulated through monitoring programs of the office and other state and federal agencies as well as universities and private sources. In some cases, available water quality and flow data are not adequate to establish criteria. Criteria in these cases are established on the basis of the best information available from waterbodies which are similar in hydrology, water quality, and physical configuration.
- 3. General and numerical water quality criteria may be modified to take into account site-specific, local conditions. Whenever data acquired from the sources named in LAC 33:IX.1113.A.2 or other sources indicate that criteria should be modified, the office will develop and recommend revised site-specific criteria. The revised criteria will be submitted to the EPA for approval and promulgated in accordance with established procedures including, but not limited to, those in the Louisiana Administrative Procedure Act, R.S. 49:950, et seq.
- B. General Criteria. Except where specifically exempted elsewhere in these standards, the general criteria shall apply at all times to the surface waters of the state, including wetlands, whether they are identified in the standards or not. General criteria specifically apply to human activities; they do not apply to naturally occurring conditions.
- 1. Aesthetics. The waters of the state shall be maintained in an aesthetically attractive condition and shall meet the generally accepted aesthetic qualifications. All waters shall be free from such concentrations of substances attributable to wastewater or other discharges sufficient to:
 - a. settle to form objectionable deposits;
 - b. float as debris, scum, oil, or other matter to form nuisances or to negatively impact the aesthetics;
 - c. result in objectionable color, odor, taste, or turbidity;
- d. injure, be toxic, or produce demonstrated adverse physiological or behavioral responses in humans, animals, fish, shellfish, wildlife, or plants; or
 - e. produce undesirable or nuisance aquatic life.
- 2. Color. Water color shall not be increased to the extent that it will interfere with present usage or projected future use of the state's waterbodies.
 - a. Waters shall be free from significant increases over natural background color levels.
 - b. A source of drinking water supply shall not exceed 75 color units on the platinum-cobalt scale.
- c. No increases in true or apparent color shall reduce the level of light penetration below that required by desirable indigenous species of aquatic life.
- 3. Floating, Suspended, and Settleable Solids. There shall be no substances present in concentrations sufficient to produce distinctly visible solids or scum, nor shall there be any formation of long-term bottom deposits of slimes or sludge banks attributable to waste discharges from municipal, industrial, or other sources including agricultural practices, mining, dredging, and the exploration for and production of oil and natural gas. The administrative authority may exempt certain short-term activities permitted under Sections 402 or 404 and certified under Section 401 of the Clean Water Act, such as maintenance dredging of navigable waterways or other short-term activities determined by the state as necessary to accommodate legitimate uses or emergencies or to protect the public health and welfare.
- 4. Taste and Odor. Taste- and odor- producing substances in the waters of the state shall be limited to concentrations that will not interfere with the production of potable water by conventional water treatment methods or impart unpalatable flavor to food fish, shellfish, and wildlife, or result in offensive odors arising from the waters, or otherwise interfere with the designated water uses.
- 5. Toxic Substances. No substances shall be present in the waters of the state or the sediments underlying said waters in quantities that alone or in combination will be toxic to human, plant, or animal life or significantly increase health risks due to exposure to the substances or consumption of contaminated fish or other aquatic life. The numerical criteria (LAC 33:IX.1113.C.6) specify allowable concentrations in water for several individual toxic substances to provide protection from the

toxic effects of these substances. Requirements for the protection from the toxic effects of other toxic substances not included in the numerical criteria and required under the general criteria are described in LAC 33:IX.1121.

- 6. Oil and Grease. Free or floating oil or grease shall not be present in quantities large enough to interfere with the designated water uses, nor shall emulsified oils be present in quantities large enough to interfere with the designated uses.
 - 7. Foaming or Frothing Materials. Foaming or frothing materials of a persistent nature are not permitted.
- 8. Nutrients. The naturally occurring range of nitrogen-phosphorous ratios shall be maintained. This range shall not apply to designated intermittent streams. To establish the appropriate range of ratios and compensate for natural seasonal fluctuations, the administrative authority will use site-specific studies to establish limits for nutrients. Nutrient concentrations that produce aquatic growth to the extent that it creates a public nuisance or interferes with designated water uses shall not be added to any surface waters.

9. Turbidity

- a. Turbidity other than that of natural origin shall not cause substantial visual contrast with the natural appearance of the waters of the state or impair any designated water use. Turbidity shall not significantly exceed background; background is defined as the natural condition of the water. Determination of background will be on a case-by-case basis.
- b. As a guideline, maximum turbidity levels, expressed as nephelometric turbidity units (NTU), are established and shall apply for the following named waterbodies and major aquatic habitat types of the state:
 - i. Red, Mermentau, Atchafalaya, Mississippi, and Vermilion Rivers and Bayou Teche-150 NTU;
 - ii. estuarine lakes, bays, bayous, and canals-50 NTU;
- iii. Amite, Pearl, Ouachita, Sabine, Calcasieu, Tangipahoa, Tickfaw, and Tchefuncte rivers-50 NTU; iv.freshwater lakes, reservoirs, and oxbows-25 NTU;
- v. designated scenic streams and outstanding natural resource waters not specifically listed in Subsection B.9.b.i-iv of this Section-25 NTU; and
- vi. for other state waters not included in Subsection B.9.b.i-v of this Section, and in waterbody segments where natural background turbidity exceeds the values specified in these clauses, turbidity in NTU caused by any discharges shall be restricted to the appropriate background value plus 10 percent. This shall not apply to designated intermittent streams.
- c. The administrative authority may exempt for short periods certain activities permitted under Sections 402 or 404 and certified under Section 401 of the Clean Water Act, such as maintenance dredging of navigable waterways or other short-term activities that the state determines are necessary to accommodate legitimate uses or emergencies or to protect the public health and welfare.
- 10. Flow. The natural flow of state waters shall not be altered to such an extent that the basic character and water quality of the ecosystem are adversely affected except in situations where alterations are necessary to protect human life or property. If alterations to the natural flow are deemed necessary, all reasonable steps shall be taken to minimize the adverse impacts of such alterations. Additionally, all reasonable steps shall be taken to mitigate the adverse impacts of unavoidable alterations.
- 11. Radioactive Materials. Radioactive materials in the surface waters of the state designated for drinking water supply use shall not exceed levels established pursuant to the Federal Safe Drinking Water Act (P.L. 93-523 et Seq.).
- 12. Biological and Aquatic Community Integrity. The biological and community structure and function in state waters shall be maintained, protected, and restored except where not attainable and feasible as defined in LAC 33:IX.1109.B.3. This is the ideal condition of the aquatic community inhabiting the unimpaired water bodies of a specified habitat and region as measured by community structure and function. The biological integrity will be guided by the fish and wildlife propagation use designated for that particular water body. Fish and wildlife propagation uses are defined in LAC 33:IX.1111.C. The condition of these aquatic communities shall be determined from the measures of physical, chemical, and biological characteristics of each surface water body type, according to its designated use (LAC 33:IX.1123). Reference site conditions will represent naturally attainable conditions. These sites should be the least impacted and most representative of water body types. Such reference sites or segments of water bodies shall be those observed to support the greatest variety and abundance of aquatic life in the region as is expected to be or has been recorded during past surveys in natural settings essentially undisturbed by human impacts, development, or discharges. This condition shall be determined by consistent sampling and reliable measures of selected, indicative communities of animals and/or invertebrates as established by the office and may be used in conjunction with acceptable chemical, physical, and microbial water quality measurements and records as deemed for this purpose.
- 13. Other Substances and Characteristics. General criteria on other substances and characteristics not specified in []1113.B will be developed as needed.

- C. Numerical Criteria. Numerical criteria identified in Table 3 apply to the specified water bodies, and to their tributaries, distributaries, and interconnected streams and water bodies contained in the water management subsegment if they are not specifically named therein, unless unique chemical, physical, and/or biological conditions preclude the attainment of the criteria. In those cases, natural background levels of these conditions may be used to establish site-specific water quality criteria. Those water bodies officially approved and designated by the state and EPA as intermittent streams, man-made water bodies, or naturally dystrophic waters may be excluded from some or all numerical criteria as stated in LAC 33:IX.1109. Although naturally occurring variations in water quality may exceed criteria, water quality conditions attributed to human activities must not exceed criteria when flows are greater than or at critical conditions (as defined in LAC 33:IX.1115.C).
- 1. pH. The pH shall fall within the range of 6.0 to 9.0 unless natural conditions exceed this range or where otherwise specified in the table (LAC 33:IX.1123). No discharge of wastes shall cause the pH of a water body to vary by more than one pH unit within the specified pH range for the subsegment where the discharge occurs.
- 2. Chlorides, Sulfates, and Total Dissolved Solids. Numerical criteria for these parameters generally represent the arithmetic mean of existing data from the nearest sampling location plus three standard deviations. For estuarine and coastal marine waters subsegments in Table 3 that have no listed criteria (i.e., designated N/A), criteria will be established on a case-by-case basis using field determination of ambient conditions and the designated uses. For water bodies not specifically listed in the Numerical Criteria and Designated Table, increases over background levels of chlorides, sulfates, and total dissolved solids may be permitted. Such increases will be permitted at the discretion of the office on a case-by-case basis and shall not cause in-stream concentrations to exceed 250, 250, and 500 mg/L for chlorides, sulfates, and total dissolved solids, respectively, except where a use attainability analysis indicates that higher levels will not affect the designated uses. In permitting such increases, the office shall consider their potential effects on resident biota and downstream water bodies in addition to the background conditions. Under no circumstances shall an allowed increase over background conditions cause any numerical criteria to be exceeded in any listed water body or any other general or numerical criteria to be exceeded in either listed or unlisted water bodies.
- 3. Dissolved Oxygen. The following dissolved oxygen (DO) values represent minimum criteria for the type of water specified. Naturally occurring variations below the criterion specified may occur for short periods. These variations reflect such natural phenomena as the reduction in photosynthetic activity and oxygen production by plants during hours of darkness. However, no waste discharge or human activity shall lower the DO concentration below the specified minimum. These DO criteria are designed to protect indigenous wildlife and aquatic life species associated with the aquatic environment and shall apply except in those water bodies that qualify for an excepted water use as specified in LAC33:IX.1109.C or where exempted or excluded elsewhere in these standards. DO criteria for specific state water bodies are contained in LAC 33:IX.1123.
- a. Fresh Water. For a diversified population of fresh warmwater biota including sport fish, the DO concentration shall be at or above 5 mg/L. Fresh warmwater biota is defined in LAC 33:IX.1105.
 - b. Estuarine Waters. Dissolved oxygen concentrations in estuarine waters shall not be less than 4 mg/L at any time.
- c. Coastal Marine Waters (Including Nearshore Gulf of Mexico). Dissolved oxygen concentrations in coastal waters shall not be less than 5 mg/L, except when upwellings and other natural phenomena cause this value to be lower.

4. Temperature

- a. The temperature criteria enumerated in the tables in most cases represent maximum values obtained from existing data. In a few cases, however, a limited number of unusually high temperatures in the range of 35° to 36°C (95-97°F) have been deleted because these values are believed to have been recorded during conditions of unseasonably high temperatures and/or unusually low flows or water levels and therefore do not represent normal maximum temperatures.
- b. The criterion consists of two parts, a temperature differential and a maximum temperature. The temperature differential represents the maximum permissible increase above ambient conditions after mixing. No additional process heat shall be added once the ambient temperature reaches the maximum temperature specified in the standards, except under natural conditions such as unusually hot, dry weather, as provided for in LAC 33:IX.1113.C.4.b.i-ii.
 - i. Fresh Water. The following temperature standards apply to fresh water:
 - (a). maximum of 2.8°C (5°F) rise above ambient for streams and rivers;
 - (b). maximum of 1.7°C (3°F) rise above ambient for lakes and reservoirs; and
- (c). maximum temperature of 32.2°C (90°F), except where otherwise listed in the tables. Maximum temperature may be varied on a case-by-case basis to allow for the effects of natural conditions such as unusually hot and/or dry weather.
 - ii. Estuarine and Coastal Waters. The following temperature standards apply to estuarine and coastal waters:
 - (a). maximum of 2.2°C (4°F) rise above ambient from October through May;
 - (b). maximum of 1.1°C (2°F) rise above ambient from June through September; and

- (c). maximum temperature of 35°C (95°F), except when natural conditions elevate temperature above this level.
- c. These temperature criteria shall not apply to privately owned reservoirs or to reservoirs constructed solely for industrial cooling purposes.

5. Bacteria

- a. The applicability of bacterial criteria to a particular stream segment depends upon the use designation of that individual stream segment. Limitations are placed on either the most probable number (MPN) fecal or total coliform concentration, or on a combination of both in order to achieve the stream sanitary quality required for the most restrictive designated use classification.
- b. The tables in this document listing applicable criteria for each individual Louisiana stream segment designate one of the following four criteria as applicable according to present and/or anticipated water usage of the segment.
- i. Primary Contact Recreation. Based on a minimum of not less than five samples taken over not more than a 30-day period, the fecal coliform content shall not exceed a log mean of 200/100 mL, nor shall more than 10 percent of the total samples during any 30-day period or 25 percent of the total samples collected annually exceed 400/100 mL. These primary contact recreation criteria shall apply only during the defined recreational period of May 1 through October 31. During the nonrecreational period of November 1 through April 30, the criteria for secondary contact recreation shall apply.
- ii. Secondary Contact Recreation. Based on a minimum of not less than five samples taken over not more than a 30-day period, the fecal coliform content shall not exceed a log mean of 1,000/100 mL, nor shall more than 10 percent of the total samples during any 30-day period or 25 percent of the total samples collected annually exceed 2,000/100 mL.
- iii. Drinking Water Supply. The monthly arithmetic mean of total coliform most probable number (MPN) shall not exceed 10,000/100 mL, nor shall the monthly arithmetic mean of fecal coliforms exceed 2,000/100 mL.
- iv. Oyster Propagation. The fecal coliform median MPN shall not exceed 14 fecal coliforms per 100 mL, and not more than 10 percent of the samples shall exceed an MPN of 43 per 100 mL for a five-tube decimal dilution test in those portions of the area most probably exposed to fecal contamination during the most unfavorable hydrographic and pollution conditions.

6. Toxic Substances.

Numerical criteria for specific toxic substances are listed in Table 1.

- a. Numerical criteria for specific toxic substances are mostly derived from the following publications of the Environmental Protection Agency: Water Quality Criteria, 1972 (commonly referred to as the "Blue Book"; Quality Criteria for Water, 1976 (commonly referred to as the "Red Book"; Ambient Water Quality Criteria, 1980 (EPA 440/5-80); Ambient Water Quality Criteria, 1984 (EPA 440/5-84-85); and Quality Criteria for Water, 1986 with updates (commonly referred to as the "Gold Book"). Natural background conditions, however, are also considered. These toxic substances are selected for criteria development because of their known or suspected occurrence in Louisiana waters and potential threat to attainment of designated water uses.
- b. The criteria for protection of aquatic life are based on acute and chronic concentrations in fresh and marine waters as specified in the EPA criteria documents and are developed primarily for attainment of the fish and wildlife propagation use. Where a specific numerical criterion is not derived in EPA criteria documents, a criterion is developed by applying an appropriate application factor for acute and chronic effects to the lowest LC50 value for a representative Louisiana species.
- c. Criteria for human health are derived using EPA guidelines, procedures, and equations for water bodies used as drinking water supplies and those not used as drinking water supplies. Criteria applied to water bodies designated as drinking water supplies are developed to protect that water supply for human consumption, including protection against taste and odor effects, to protect it for primary and secondary contact recreation, and to prevent contamination of fish and aquatic life consumed by humans. Criteria for water bodies not designated as drinking water supplies are developed to protect them for primary and secondary contact recreation and to prevent contamination of fish and aquatic life consumed by humans. In some cases, the maximum contaminant levels (MCLs) from the National Drinking Water Regulations, when more restrictive, are used as the criteria. For those toxic substances that are suspected or proven carcinogens, an incremental cancer risk level of 10⁻⁶ (1 in 1,000,000) is used in deriving criteria, with the exception of 2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) and hexachlorocyclohexane (lindane, gamma BHC), in which case 10⁻⁵ (1 in 100,000) is used to derive the criteria.
- d. Metals criteria are based on dissolved metals concentrations in ambient waters. Hardness values are averaged from two-year data compilations contained in the latest Louisiana Water Quality Data Summary or other comparable data compilations or reports.
- e. For purposes of criteria assessment, the most stringent criteria for each toxic substance will apply. For determination of criteria attainment in ambient water where the criteria are below the detection limit, then no detectable concentrations will be allowed. However, for dilution calculations or water quality modeling used to develop total maximum daily load and wasteload allocations, the assigned criteria, even if below the detection limit, will be used.

f. The use of clean or ultra-clean techniques may be required to definitively assess ambient levels of some pollutants (e.g., EPA method 1669 for metals) or to assess such pollutants when numeric or narrative water quality standards are not being attained. Clean and ultra-clean techniques are defined in LAC 33:IX.1105.

Table 1

Numerical Criteria for Specific Toxic Substances

(In micrograms per liter (µg/L) or parts per billion (ppb) unless designated otherwise)

		Aquatic Li	Human Health Protection			
	Fres	hwater 🦠	Non-			
Toxic Substance	Acute	Chronic	Acute	Chronic	Drinking Water Supply ¹	Drinking Water Supply ²
		Pesticides and	PCB's			thought and the second
Aldrin	3.00		1.300		0.04 ng/l	0.04 ng/l ³
Chlordane	2.40	0.0043	0.090	0.0040	0.19 ng/l	0.19 ng/l
DDT	1.10	0.0010	0.130	0.0010	0.19 ng/l	0.19 ng/l
TDE (DDD)	0.03	0.0060	1.250	0.2500	0.27 ng/l	0.27 ng/l
DDE	52.5	10.5000	0.700	0.1400	0.19 ng/l	0.19 ng/l
Dieldrin	0.2374	0.0557	0.710	0.0019	0.05 ng/l	0.05 ng/l
Endosulfan	0.22	0.0560	0.034	0.0087	0.47	0.64
Endrin	0.0864	0.0375	0.037	0.0023	0.26	0.26
Heptachlor	0.52	0.0038	0.053	0.0036	0.07 ng/l	0.07 ng/l
Hexachlorocyclohexane (gamma BHC, Lindane)	5.30	0.21	0.160		0.11	0.20
Polychlorinated Biphenyls, Total (PCB's)	2.00	0.0140	10.000	0.0300	0.01 ng/l	0.01 ng/l
Toxaphene	0.73	0.0002	0.210	0.0002	0.24 ng/l	0.24 ng/l
2,4-Dichlorophenoxyacetic acid (2,4-D)					100.00	
2-(2,4,5-Trichlorophenoxy) propionic acid (2,4,5-TP;Silvex)					10.00	
		latile Organic				12 (17)
Benzene	2,249	1,125	2,700	1,350	1.1	12.5
Carbon Tetrachloride (Tetrachloromethane)	2,730	1,365	15,000	7,500	0.22	1.2
Chloroform (Trichloromethane)	2,890	1,445	8,150	4,075	5.3	70
Ethylbenzene	3,200	1,600	8,760	4,380	2.39 mg/l	8.1 mg/l ⁴
1,2-Dichloroethane (EDC)	11,800	5,900	11,300	5,650	0.36	6.8
1,1,1-Trichloroethane	5,280	2,640	3,120	1,560	200.0	
1,1,2-Trichloroethane	1,800	900			0.56	6.9
1,1,2,2-Tetrachloroethane	932	466	902	451	0.16	1.8
1,1-Dichloroethylene	1,160	580	22,400	11,200	0.05	0.58
Trichloroethylene	3,900	1,950	200	100	2.8	21
Tetrachloroethylene	1,290	645	1,020	510	0.65	2.5
Toluene	1,270	635	950	475	6.1 mg/l	46.2 mg/l
Vinyl Chloride (Chloroethylene)					1.9	35.8
Bromoform (Tribromomethane)	2,930	1,465	1,790	895	3.9	34.7
Bromodichloromethane				<u></u>	0.2	3.3
		xtractable Org		Y		*
Methylene chloride (Dichloromethane)	19,300	9,650	25,600	12,800	4.4	87
Methyl chloride (Chloromethane)	55,000	27,500	27,000	13,500		
Dibromochloromethane					0.39	5.08
1,-3-Dichloropropene	606	303	79	39.5	9.86	162.79
2-Chlorophenol	258	129			0.10	126.4
3-Chlorophenol					0.10	
4-Chlorophenol	383	192	535	268	0.10	

Table 1

Numerical Criteria for Specific Toxic Substances

(In micrograms per liter (µg/L) or parts per billion (ppb) unless designated otherwise)

(in inicrograms pe		Aquatic Lif	Human Health Protection			
	Fres	shwater 🧢	Marin	ie Water		Non-
Toxic Substance	Acute		Acute		Drinking Water Supply ¹	
2,3-Dichlorophenol					0.04	
2,4-Dichlorophenol	202	101			0.30	232.6
2,5-Dichlorophenol					0.50	
2,6-Dichlorophenol					0.20	
3,4-Dichlorophenol					0.30	
Phenol (Total) ⁵	700	350	580	290	5.00	50.0
	Base/Neutr	al Extractable (Organic Chen	nicals		8 (40 14 Bath
Benzidine	250	125			0.08 ng/l	0.17 ng/l
Hexachlorobenzene					0.25 ng/l	0.25 ng/l
Hexachlorobutadiene ⁶	5.1	1.02	1.6	0.32	0.09	0.11
		Other Orga	nics			
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) ⁹					0.71 ppq ⁸	0.72 ppq
		Metals and Ino	rganics	Mark		. Herristan
Arsenic	339.8	150	69.00	36.00	50.0	I
Chromium III (Tri) ^{7,8}	310	103	515.00	103.00	50.0	
	537	181				
	980	318				
Chromium VI (Hex)	16	11	1.10 mg/L	50.00	50.0	
Zinc ^{7,8}	64	58	90	81	5.0 mg/L	
	117	108				
	205	187				
Cadmium ^{7,8}	15	0.62	45.35	10.00	10.0	
	32	1.03				
	67	1.76				
Copper ^{7,8}	10	7	3.63	3.63	1.0 mg/L	
	18	12				
	35	22				
Lead ^{7,8}	30	1.2	209	8.08	50.0	
	65	2.5		2.00	1	
	138	5.31				
Mercury ⁸	2.04	0.012 ¹¹	2	0.025^{11}	2.0	
Nickel ^{7,8}	788	88	74	8.2		
110001	1,397	160	, -	3.2		
	2,495	279				
Cyanide	45.9	5.4	1.0		663.8	12,844

- ¹ Applies to surface water bodies designated as a Drinking Water Supply and also protects for primary and secondary contact recreation and fish consumption.
- ² Applies to surface water bodies not designated as a Drinking Water supply and protects for primary and secondary contact recreation and fish consumption.
- ³ ng/l = nanograms per liter, parts per trillion
- ⁴ mg/l = milligrams per liter, parts per million
- ⁵ Total phenol as measured by the 4 aminoantipyrine (4AAP) method
- ⁶ Includes Hexachloro-1.3-butadiene
- ⁷ Hardness-dependent criteria for freshwater are based on the following natural logarithm formulas multiplied by conversion factors (CF) for acute and chronic protection (in descending order, numbers represent criteria in μg/L at hardness values of 50, 100, and 200 mg/L CaCO₃, respectively):

e (0.8190[in(hardness)] + 3.6880) X CF Chromium III: acute (0.8190[ln(hardness)] + 1.5610) X CF chronic = (0.8473[In(hardness)] + 0.8604) X CF Zinc: acute (0.8473[ln(hardness)] + 0.7614) X CF chronic = e (1.1280[ln(hardness)] - 1.6774) X CF Cadmium: acute (0.7852[in(hardness)] - 3.4900) X CF chronic = e (0.9422[in(hardness)] - 1.3844) X CF Copper: acute (0.8545[in(hardness)] - 1.3860) X CF chronic = e (1.2730[ln(hardness)] - 1.4600) X CF Lead: acute e (1.2730[in(hardness)] - 4.7050) X CF chronic = (0.8460[ln(hardness)] + 3.3612) X CF Nickel: acute e (0.8460[ln(hardness)] + 1.1645) X CF chronic =

⁸ Freshwater and saltwater metals criteria are expressed in terms of the dissolved metal in the water column. The standard was calculated by multiplying the previous water quality criteria by a conversion factor (CF). The CF represents the EPA-recommended conversion factors found in 60 FR 68354-68364 (December 10, 1998) and shown in Table 1A.

⁹ ppq = parts per quadrillion

¹⁰ Advances in scientific knowledge concerning the toxicity, cancer potency, metabolism, or exposure pathways of toxic pollutants that affect the assumptions on which existing criteria are based may necessitate a revision of dioxin numerical criteria at any time. Such revisions, however, will be accomplished only after proper consideration of designated water uses. Any proposed revision will be consistent with state and federal regulations.

¹¹ If the four-day average concentration for total mercury exceeds $0.012 \mu g/L$ in freshwater or $0.025 \mu g/L$ in saltwater more than once in a three-year period, the edible portion of aquatic species of concern must be analyzed to determine whether the concentration of methyl mercury exceeds the FDA action level (1.0 mg/kg). If the FDA action level is exceeded, the state must notify the appropriate EPA Regional Administrator, initiate a revision of its mercury criterion in its water quality standards so as to protect designated uses, and take other appropriate action such as issuance of a fish consumption advisory for the affected area.

	Table 1A. Conversion Factors for Dissolved Metals ^a										
Metal	Conversion Factor Freshwater Acute Criteria	Conversion Factor Freshwater Chronic Criteria	Freshwater Chronic Marine Water Acute Marine								
Arsenic	1.00	1.00	1.00	1.00							
Chromium III (Tri)	0.316	0.86	NA	NA							
Chromium VI (Hex)	0.982	0.962	0.993	0.993							
Zinc	0.978	0.986	0.946	0.946							
Cadmium ^b	0.973	0.938	0.994	0.994							
Copper	0.960	0.960	0.830	0.830							
Lead ^b	0.892	0.892	0.951	0.951							
Mercury	0.85°	N/A ^d	0.85°	N/A ^d							
Nickel	0.998	0.997	0.990	0.990							

^aThe conversion factors are given to three decimal places because they are intermediate values in the calculation of dissolved criteria. Conversion factors derived for the marine water chronic criteria are not yet available. Conversion factors derived for marine water acute criteria have been used for both marine water chronic and acute criteria.

^bConversion factors are hardness dependent. The values shown are with a hardness of 50 mg/L as CaCO₃. Conversion factors for any hardness can be calculated using the following equations:

Cadmium Acute CF = 1.136672-[(ln hardness)(0.041838)]

Cadmium Chronic CF = 1.101672-[(In hardness)(0.041838)]

Lead Acute and Chronic CF = 1.46203-[(ln hardness)(0.145712)]

^cConversion factor from: Office of Water Policy and Technical Guidance on Interpretation and Implementation of Aquatic Life Metals Criteria, October 1, 1993. Factors were expressed to two decimal places.

^dNot appropriate to apply CF to chronic value for mercury because it is based on mercury residues in aquatic organisms rather than toxicity.

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§1115. Application Of Standards

A. Background

- 1. Water quality standards set forth in this Chapter specify concentration limits and other water quality characteristics which, if not exceeded, are expected to result in an aquatic ecosystem suitable for the highest designated uses given. These concentration limits and characteristics (criteria) are derived for individual water segments on the basis of the designated use or uses of the segment and the natural qualities of the waters.
- 2. An established water quality value (criterion) represents the maximum general or numerical concentration limit or characteristic (with the exception of dissolved oxygen and pH) of a constituent in a waterbody segment that is allowed by the state. For some toxic substances, however, criteria provide both acute and chronic limits for the protection of aquatic life in fresh and marine waters, and separate limits for the protection of human health. Criteria apply at all times, except where natural conditions cause them to be exceeded or where specific exemptions in the standards apply. Water uses, pollution sources, natural conditions, and the water quality criteria are all considered in the office's determination of appropriate permit limits for each wastewater discharge to a waterbody.
- 3. The difference between an ambient concentration and a water quality criterion value should not be construed as the amount of a constituent that can be discharged. The antidegradation statement requires that all waters which exceed the water

quality standards be maintained at their existing high quality, which can be lowered only after appropriate economic and or social justification has been shown. More stringent requirements apply to those waters designated as outstanding natural resource waters.

- B. Flow Conditions. Except where indicated elsewhere in this Chapter, the water quality standards specified herein shall apply during all flow conditions greater than the critical flows defined in LAC 33:IX.1115.C. (See LAC 33:IX.1107 and intermittent streams exception category, LAC 33:IX.1109.C.1.)
 - C. Mixing, Mixing Zone, and Flow Application
- 1. Mixing zones are those portions of water bodies where effluent waters are dispersed into receiving waters. These are areas where effluents and receiving waters mix and not areas where effluents are treated. Mixing zones are not considered a part of the wastewater treatment process. Mixing must be accomplished as quickly as possible to ensure that the waste is mixed in the smallest practicable area. Outfall structures should be designed to minimize mixing zone size. Mixing zones and fractions of flow apply only to aquatic life criteria. Human health criteria are to be met below the point of discharge after complete mixing.
- 2. Mixing zones are exempted from general and numerical criteria as specified in LAC 33:IX.1113, except as required in Subsection C.5 of this Section. The waters outside of mixing zones must meet all the standards for that particular body of water. For toxic substances, this requires meeting chronic aquatic life criteria beginning at the edge of the mixing zone.
- 3. For aquatic life criteria, small zones of initial dilution will be allowed at each discharge site within a mixing zone. Numeric mixing zones and other receiving water criteria, including both aquatic life acute and chronic water quality criteria, will not apply in these zones of initial dilution. Zones of initial dilution are, however, restricted to the immediate point of discharge and are substantially smaller than the designated mixing zone. They shall not exceed 10 percent of the size of the mixing zone unless conditions specified in Subsection C.13 of this Section are met. Numeric acute aquatic life criteria apply beginning at the edge of the zone of initial dilution.
- 4. A mixing zone shall not be allowed to adversely impact a nursery area for aquatic life species, habitat for waterfowl or indigenous wildlife associated with the aquatic environment except as provided in Subsection C.2 and 3 of this Section, or any area approved by the state for oyster propagation. Mixing and mixing zones shall not include an existing drinking water supply intake if they would significantly impair the drinking water intake.
 - 5. Mixing zones must be free of the following:
- a. floating debris, oil, scum, and other material in concentrations that constitute a nuisance or negatively impact the aesthetics;
 - b. substances in concentrations which produce undesirable or nuisance aquatic life; and
- c. materials in concentrations that will cause acute toxicity to aquatic life. Acute toxicity refers to aquatic life lethality or other deleterious effects caused by the passage through a mixing zone of migrating fish moving up or downstream, or by the passage through a mixing zone of less mobile forms such as zooplankton that drift through the mixing zone. Numerical acute criteria or other acute quantitative limits for toxic substances will be applied in the mixing zone to protect aquatic life from acute toxicity.
- 6. Applicable limits of mixing zones shall include, but may not be limited to, the linear distances from point source discharges, surface area involvement, and volume of receiving water, and shall take into account other nearby mixing zones. A mixing zone shall not overlap another mixing zone in such a manner, or be so large, as to impair any designated water use in the receiving water body when the water body is considered as a whole.
- 7. For the application of aquatic life criteria, state water bodies are separated into seven categories as described in Table 2a, and for the application of human health criteria, state water bodies are separated into six categories as described in Table 2b. Mixing zones apply to the implementation of chronic aquatic life criteria, and zones of initial dilution apply to the implementation of acute aquatic life criteria.
- a. Chronic aquatic life criteria apply outside the mixing zone, beginning at the edge. The 7Q10 is specified in Table 2a with the intention of limiting 7-day average concentration exceedences to no more than once every 10 years.
- b. In perennial, flowing streams (Table 2b, Categories 1 and 2), harmonic mean flow is specified for human health protection against carcinogens, and the 7Q10 is specified for human health protection against non-carcinogens.
- c. These specified flows will not be appropriate under some circumstances, and alternative formulations will be required to determine appropriate effluent limitations for equivalent protection of human health and aquatic life uses of the stream. These exceptions may include, but are not limited to, seasonally variable effluent discharge rates, hold and release treatment systems, and effluent dominated sites. The office may approve an alternative which is protective of designated uses, to be determined on a case-by-case basis.
- 8. For chlorides, sulfates and total dissolved solids, criteria are to be met below the point of discharge after complete mixing. Because criteria are developed over a long-term period, harmonic mean flow will be applied for mixing.

- 9. Dilution at the edge of the mixing zone and at the edge of the zone of initial dilution for water body categories 5, 6, and 7 (Table 2a) will be determined on a case-by-case basis.
- 10. Mixing zones shall not preclude the occurrence of continuous water routes of the volume, area, and quality necessary to allow passage of free-swimming and drifting fish and aquatic life with no significant effects on their populations.
- 11. In those cases, such as wetlands, where unique site-specific conditions or other considerations preclude the application of specific mixing zone requirements, the office may specify definable, geometric limits for mixing zones.
- 12. In those cases where unique site-specific conditions preclude the application of the flow requirements for Category 2 water bodies as stated in Tables 2a and 2b, the office may on a case-by-case basis approve an alternative flow when determining 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) permitted effluent concentrations. Any flow specifications shall be protective of designated uses.
- 13. In cases for which a diffuser has been approved or required for use with a wastewater discharge, the office may increase the dilution allowed for the application of acute aquatic life criteria at the edge of the zone of initial dilution. The dilution allowed will be determined by the office after consideration of receiving water body characteristics and diffuser capabilities. No increase in dilution will be allowed at the edge of the mixing zone for the application of chronic aquatic life criteria. Physical constraints of a particular water body may preclude the approval and use of a diffuser. The following conditions must be met with the use of a diffuser:
- a. the diffused discharge velocity must be sufficient to provide adequate mixing such that acutely toxic conditions are minimized;
- b. the diffused discharge must not adversely impact nursery areas for aquatic life species or indigenous wildlife associated with the aquatic environment except as provided in Subsection C.2 and 3 of this Section, propagation areas, zones of passage for aquatic life (see Subsection C.10 of this Section), wildlife uses, recreational uses, or drinking water supply intakes;
 - c. the diffused discharge must not cause erosion or scour of the water body banks or bottom;
- d. the diffused discharge must be submerged and located in areas with sufficient depth available so that surface water uses of the receiving water are not impaired and the design mixing capabilities of the diffuser are achieved;
- e. diffused discharges must not be located in areas where the diffuser may be damaged or impaired by scouring, deposition, or periodic dredging; and
- f. diffused discharges must not be located in areas where eddies or whirlpools can cause buildup of effluent concentrations by obstructing or trapping the discharge jet flow.

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Table 2a. Water Body Categorization for the Determination of Appropriate Dilution and Mixing Zone
Application for Aquatic Life

		Application for Aquatic i						
C			Aquatic Life					
			Fraction of Flow or Radial Distance (feet)					
A .			ZID ^a	MZ ^b				
T								
G	Description	Flow						
1	Streams with 7Q10 flow greater	7Q10	10 cfs or 1/30 of the	100 cfs or 1/3 of the				
	than 100 cfs ^c		flow, whichever is	flow, whichever is				
			greater	greater				
2	Streams with 7Q10 flow less than	7Q10	1/10	1				
-	or equal to 100 cfs	1/2 6/1	10 . C 1/20 . C.1	100 - C 1/2 - C-1-				
3	Tidal channels with flows greater	1/3 of the average or	10 cfs or 1/30 of the	100 cfs or 1/3 of the				
	than 100 cfs	typical flow averaged	flow, whichever is	flow, whichever is				
		over one tidal cycle	greater	greater				
		irrespective of flow						
		direction		l l				

Table 2a. Water Body Categorization for the Determination of Appropriate Dilution and Mixing Zone
Application for Aquatic Life

		Aquatic Life							
			Fraction of Flow or Radial Distance (feet						
4	Tidal channels with flows less than or equal to 100 cfs	1/3 of the average or typical flow averaged over one tidal cycle irrespective of flow direction	1/10	1					
5	Freshwater lakes and ponds	Not Applicable	25 feet	100 feet					
6	Coastal bays and lakes	Not Applicable	50 feet	200 feet					
7	Gulf of Mexico	Not Applicable	100 feet	400 feet					

 $^{^{}b}$ MZ = mixing zone

Table 2b. Water Body Categorization for the Determination of Flow for Human Health

224 2 382	para series de la	Human Health Flow							
A T G	Description	Noncarcinogens	Carcinogens						
1	Streams with 7Q10 flow greater than 100 cfs	7Q10	Harmonic Mean						
2	Streams with 7Q10 flow less than or equal to 100 cfs	7Q10	Harmonic Mean						
3	Tidal channel	The average or typical flow avera irrespective of flow direction	ged over one tidal cycle						
4	Freshwater lakes and ponds	Not Applicable	Not Applicable						
5	Coastal bays and lakes	Not Applicable	Not Applicable						
6	Gulf of Mexico	Not Applicable	Not Applicable						

^a ZID = zone of initial dilution

c cfs = cubic feet per second

§1117. References

- A. The following references were used in developing LAC 33:IX.1101-1115 or are referred to in those Sections:
- 1. Chabreck, R.H., and R.G. Linscombe. 1978. Vegetative Type Map of the Louisiana Coastal Marshes. New Orleans: Louisiana Department of Wildlife and Fisheries.
- 2. Louisiana Department of Environmental Quality. (continuous). Fixed Station Long-Term Ambient Surface Water Quality Network. Baton Rouge: Office of Environmental Assessment, Environmental Evaluation Division.
- 3. National Academy of Sciences, National Academy of Engineering. 1974. Water Quality Criteria, 1972. Environmental Protection Agency, Ecological Research Series, EPA R3.73:033. Washington, D.C.:U.S. Government Printing Office.
 - 4. U.S. Environmental Protection Agency. 1976. Quality Criteria for Water. Washington, D.C.:EPA.
- 5. U.S. Environmental Protection Agency. 1983. Water Quality Standards Handbook. WH-585. Washington, D.C.: Office of Water Regulations and Standards, EPA.
- 6. U.S. Environmental Protection Agency. 1983. Technical Support Manual: Waterbody Surveys and Assessments for Conducting Use Attainability Analyses. WH-585. Washington, D.C.: Office of Water Regulations and Standards, EPA.
- 7. U.S. Environmental Protection Agency. 1986. Quality Criteria for Water: 1986. EPA Series No. 440/5-86-001. Washington, D.C.:U.S. Government Printing Office.
- 8. U.S. Environmental Protection Agency. 1989. Establishment of Ambient Criteria to Limit Human Exposure to Contaminants in Fish and Shellfish. Guidance Document. Washington, D.C.: Office of Water Regulations and Standards, EPA.
- 9. U.S. Environmental Protection Agency. (continuous). Ambient Water Quality Criteria. EPA Series No. 440/5-80-84-85, 86. Washington, D.C.:EPA.
- 10. U.S. Environmental Protection Agency. 1991. Technical Support Document for Water Quality-Based Toxics Control. EPA/505/2-90-001.
- 11. U.S. Environmental Protection Agency. December 22, 1992. Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants; States' Compliance. Federal Register: Vol. 57, No. 246. WH-FRL-4543-9. Washington, D.C.: Office of Science and Technology, EPA.
- 12. U.S. Environmental Protection Agency. April, 1995. Method 1669: Sampling Ambient Water for Trace Metals At EPA Water Quality Criteria Levels. EPA 821-R-95-034.
- 13. Webster's II New Riverside University Dictionary, Anne H. Soukhanov, editor. 1988. Houghton Mifflin Company. Boston, MA.

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HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 10:745 (October 1984), amended LR 15:738 (September 1989), LR 17:264 (March 1991), LR 20:883 (August 1994), amended by the Office of Environmental Assessment, Environmental Planning Division LR 25:2401 (December 1999).

§1119. Implementation Plan for Antidegradation Policy

A. Summary and Purpose

- 1. As stated in LAC 33:IX.1109.A of these regulations, the Antidegredation Policy provides a legal framework for the basic maintenance and protection of all designated water uses. It also outlines methods that the state uses to protect state waters from water quality degradation and some of the state and federal rules and regulations that authorize them.
- 2. This Section explains the specific procedures used by the office as the state's designated water quality management agency to implement the Antidegradation Policy.
 - B. Implementation of Louisiana's Water Quality Management Process
- 1. Procedures and methods by which the Antidegradation Policy is implemented are described in several documents produced under the Water Quality Management (WQM) Process ("The Water Quality Standards (WQS)," "The Water Quality Inventory," "The Water Quality Management Plan," "The Continuing Planning Process"; and "The Water Pollution Control Program Plan"). These documents are available from the office.
- 2. WQM is a step-by-step process which involves several interrelated programs that establish controls on the discharge of pollutants and maintain existing water quality, thereby protecting state waters from degradation. That process is summarized below.

- a. The state establishes the water quality standards specified in this Chapter to reflect the goals for individual waterbodies and provide the legal basis for antidegradation and for water pollution control. This Chapter also defines and designates water uses and criteria to protect them.
- b. A series of water quality monitoring activities is conducted annually to provide the physical, chemical and biological data needed to determine the quality of state waters, identify pollution sources and help develop and enforce the water quality standards defined in this Chapter. Monitoring activities include maintaining monthly water quality stations, conducting intensive surveys and special studies, investigating pollution complaints, and assuring compliance of dischargers.
- c. Water quality monitoring data and waterbody conditions are continually assessed to identify problem areas and assist in the development of water quality management plans and standards. The biennial Louisiana Water Quality Inventory is the state's principal tool in water quality assessment and identifies areas of water quality degradation.
- d. The state's Water Quality Management Plan (WQMP) utilizes discharger data, various land use inventories, and the results of the monitoring and assessment programs to identify priority water quality problems. The WQMP contains the analyses used and management decisions made to control specific pollution sources and recommends control measures to attain the water quality standards. The plan includes provisions for identifying priority WQM basins and segments, allocating point source wasteloads, controlling nonpoint sources, general planning needs, and public participation.
- e. A wastewater discharge permit is required for any discharge into state waters with the exception of those noted in LAC 33:IX.301.D and F. Permits based on water quality are developed to specify the wasteload content of the discharge that must not be exceeded to attain water quality standards and protect state waters from degradation. Other control activities include the development of best management practices for nonpoint source controls and water quality certification of federal permits.
- f. Enforcement activities of the office help eliminate or ameliorate water quality degradation caused by both permitted and unpermitted discharges. Enforcement actions are directed at dischargers found to be in violation of the Water Control Law or effluent limits detailed in a wastewater permit.
- g. The state's Continuing Planning Process (CPP) document describes those administrative, technical, and programmatic processes used by the state to implement its water pollution control program. The document contains detailed descriptions of each phase of implementation, from the planning of monitoring efforts, to the assessment and reporting of resulting data, to the decision-making process for carrying out policy promulgated by the office. To maintain an annual schedule of water quality needs and activities, the office also developed the Water Pollution Control Program Plan consistent with Section 106 of the Clean Water Act.
- C. Specific Implementation Procedures for the Antidegradation Policy. The antidegradation policy is implemented by ensuring that for all activities which may impact water quality and are permitted by the state, or for which there must be a permit on which the state comments, consideration is given to requirements of the policy. The basic principle of the policy is that water quality criteria specified in the standards shall not be exceeded and that designated uses will not be adversely impacted.
 - 1. If either the criteria or uses cannot be attained, then a use attainability analysis will be conducted.
- 2. If such activity will impact water quality by either a point or nonpoint source discharge of pollutants, the state shall ensure that the activity will not interfere with or become injurious to the existing uses. If water quality will be degraded, the state shall ensure that the intergovernmental coordination and public participation provisions of the state's Continuing Planning Process are met.
- 3. If the public has not been informed of the possible lowering of water quality and has had no opportunity to comment on it, then the state shall ensure that the public is provided that opportunity. In the case of state or federal wastewater discharge permits, this may be accomplished by including notice of the possible lowering of water quality in the public notice of the permit. If the location and load proposed in the discharge permit has been previously reviewed by the public as part of the water quality management plan, additional public notice is not required. When public notice of the permit is required, the following language will be included:

"During the preparation of this permit, it has been determined that this discharge will have no adverse impact on the existing uses of the receiving waterbody. As with any discharge, however, some change in existing water quality may occur."

4. If a wastewater discharge or activity is proposed for an outstanding natural resource waterbody, as defined by this Chapter, the administrative authority shall not approve that activity if it will cause degradation of these waters. For these purposes, degradation is defined as a statistically significant difference at the 90 percent confidence interval from existing physical, chemical and biological conditions. Existing discharges of treated sanitary wastewater may be allowed if no reasonable alternative discharge location is available or if the discharge existed before the designation as an outstanding natural resource waterbody.

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HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 15:738 (September 1989).

§1121. Regulation of Toxic Substances Based on the General Criteria

A. Introduction

- 1. The water quality standards in this Chapter provide for the protection of human, plant, and animal life from the deleterious effects of toxic substances. The general criteria (LAC 33:IX.1113.B.5), in particular, require that state waters be free from the effects of toxic substances. This requirement is especially applicable to those toxic substances for which no numerical criteria are established.
- 2. The following methods are developed to protect state waters from the effects of toxic substances as required under the general criteria and where no numerical criteria exist. The methods follow the permitting policies of the Louisiana Water Discharge Permit System (LWDPS). The resulting permit (effluent) limitations imposed on discharges prevent toxic in-stream conditions as required under the general criteria.
 - B. Effluent Characterization/Toxicity Testing and/or Instream Assessment
- 1. When determining the need for limits based on water quality, the office may identify data needs and request that the permittee submit additional data along with the application. Permits may be placed into three categories:
 - a. discharges for which adequate data exist;
 - b. discharges for which some data exist; and
 - c. discharges for which no water-quality-related data are available.
- 2. In areas of known ambient toxicity, both specific chemical data and available whole effluent toxicity data representative of the facility's discharge into the receiving water will be reviewed.
- 3. In general, whole effluent toxicity testing will be required in the permit for discharges where data are insufficient to demonstrate that any discharge does not or will not contribute to ambient toxicity.
- a. Tests will be routinely run for the life of the permit on an established schedule dependent upon on the variability of the discharge and on whether effluent toxicity is suspected or unknown.
- b. Both acute toxicity and chronic toxicity tests may be required. Test methods found in the following sources or their updated versions should be followed: "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms," 4th Edition, EPA/600/4-90/027F, EPA, 1993; "Short-Term Methods for Estimating the Chronic Toxicity of Effluents And Receiving Waters To Freshwater Organisms," 3rd Edition, EPA/600/4-91/002, EPA, 1994; and "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms," 2nd Edition, EPA/600/4-91/003, EPA.
- i. Acute toxicity tests will be considered for "end-of-pipe" effluent. Dilution water will be receiving water collected at a point upstream of or adequately removed from the discharge point(s).
- ii. For chronic toxicity tests of effluent, dilution water will also be receiving stream water collected at a point upstream of or adequately removed from the discharge point(s). In flowing water bodies, one dilution in the series required to calculate the no-observed-effect level (NOEL) will reflect the 7Q10 flow dilution. In some water bodies the 7Q10 flow may not be considered adequate, and a more appropriate low flow will be used for dilution calculations.
- iii. Multiple toxicity tests using more than one species of test organisms will normally be required. The following tests and species are considered applicable to and representative of Louisiana waters. Other applicable tests and test species may also be used after approval by the office. In general, some combination of the following tests and species will be required.
 - (a). for receiving water bodies with salinities less than 2 % (2 ppt or 2,000 ppm):
 - (i). 48-hour Ceriodaphnia or Daphnia pulex acute survival;
 - (ii). 48- and 96-hour fathead minnow (Pimephales promelas) static renewal acute survival;
 - (iii).7-day Ceriodaphnia chronic reproduction and survival;
 - (iv). 7-day fathead minnow chronic survival and teratogenicity;
 - (v). 7-day fathead minnow chronic growth and survival; and
 - (vi).4-day Selenastrum chronic growth test.
 - (b). for receiving water bodies with salinities equal to or greater than 2 ‰ (2 ppt or 2,000 ppm):
 - (i). 48-hour mysid shrimp acute survival;
 - (ii). 48- and 96-hour sheepshead minnow (Cyprinodon variegatus) static renewal acute survival;

- (iii).48-hour inland silverside (Menidia beryllina) static renewal acute survival;
- (iv). 7-day mysid shrimp survival, growth, and fecundity;
- (v). 7-day sheepshead minnow larval survival and growth; and
- (vi). 7-day inland silverside larval survival and growth; and
- (c). If a control test reveals upstream ambient water to be toxic, the discharger will redo the toxicity tests using EPAand office-approved reconstituted water with hardness, alkalinity, pH, and conductivity comparable to the ambient stream for dilution. The office will evaluate the toxicity data if upstream toxicity is indicated.
- 4. For waterbodies whose designated use is as a drinking water supply, the office will calculate the in-stream concentration for all pollutants discharged for which EPA has promulgated a maximum contaminant level (MCL). The permittee will be required to submit to the office sufficient effluent characterization data to make these calculations. Where dilution calculations indicate that in-stream concentrations may exceed the MCL requirements at appropriate flow conditions, the permittee may be required to conduct in-stream chemical monitoring or monitoring at the water supply.
- 5. To protect human health by eliminating chronic exposure to potentially toxic amounts of pollutants from aquatic species consumed by humans, the office will calculate the in-stream concentrations of all applicable pollutants for which EPA has published human health criteria in the Quality Criteria for Water, 1986, EPA 440/5-86-001, or subsequent revisions. The permittee will be required to submit to the office sufficient effluent characterization data to make these calculations. For operational considerations, if dilution calculations show that after mixing, a suspected carcinogen would be present in the receiving waterbody at a concentration associated with a 10⁻⁶ risk level, in-stream chemical monitoring may be required of the appropriate dischargers. The office will list the waterbody as a priority waterbody and develop a wasteload allocation or make other consideration for it.
- C. Options for Implementing Whole Effluent Toxicity Permit Requirements. The option or combination of options to be selected by the office from the following will depend on data availability at the time of permit application and on whether toxicity is known or suspected.
- 1. Option 1. Final whole effluent toxicity limits are included in the permit with an interim schedule for conducting toxicity reduction that begins upon issuance of the permit.
- 2. Option 2. The permittee will conduct whole effluent toxicity testing with pass/fail criteria that will trigger toxicity reduction efforts. A clause requiring this will be placed in the permit to take effect if the pass/fail criteria are exceeded when any toxic impact exhibited shows a statistically significant difference between the effluent sample and the control. If any toxicity test is failed, an opportunity for retesting will be given. When no toxicity is demonstrated or no toxicity criteria are exceeded, testing may be reduced for the remainder of the term of the permit. If any subsequent testing indicates toxicity, the permittee must revert to the more frequent monitoring schedule.
- 3. Option 3. No whole effluent toxicity limits are included in the permit. Limits based on MCLs and/or on protecting human health are included, or a schedule for their inclusion is incorporated into the permit.
 - 4. Option 4. No whole effluent toxicity limits are included in the permit.
 - 5. Option 5. A combination of the above four options may be applied.
 - D. References. The following references were used in developing or were cited in this Section.
- 1. U.S. Environmental Protection Agency. 1986. Quality Criteria for Water: 1986. EPA 440/5-86-001. Washington, D.C.: U.S. Government Printing Office.
- 2. U.S. Environmental Protection Agency. 1991. Methods for Aquatic Toxicity Identification Evaluations: Phase I, Toxicity Characterization Procedures. EPA/600/6-91/003. Washington, D.C.: EPA.
- 3. U.S. Environmental Protection Agency. 1991. Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. 2nd Edition. EPA/600/4-91/003.
- 4. U.S. Environmental Protection Agency. 1991. Technical Support Document for Water Quality-Based Toxics Control. EPA/505/2-90-001.
- 5. U.S. Environmental Protection Agency. 1993. Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms. 4th Edition. EPA/600/4-90/027F.
- 6. U.S. Environmental Protection Agency. 1994. Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms. 3rd Edition. EPA/600/4-91/002.
- E. Additional Toxicity Testing Guidance. The following references are cited as guidance documents that are used for biomonitoring:

- 1. U.S. Environmental Protection Agency. 1994. Methods for Measuring the Toxicity and Bioaccumulation of Sediment-Associated Contaminants with Freshwater Invertebrates. EPA/600/R-94/024.
- 2. U.S. Environmental Protection Agency. 1994. Methods for Assessing the Toxicity of Sediment Associated Contaminants with Estuarine and Marine Amphipods. EPA/600/R-94/025.

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HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 15:738 (September 1989), amended LR 17:264 (March 1991), LR 20:883 (August 1994), amended by the Office of Environmental Assessment, Environmental Planning Division LR 25:2401 (December 1999).

§1123. Numerical Criteria and Designated Uses

A. Designated Water Quality Management Basins

	Table/Basin Number
Atchafalaya River Basin	(01)
Barataria Basin	(02)
Calcasieu River Basin	(03)
Lake Pontchartrain Basin	(04)
Mermentau River Basin	(05)
Vermilion-Teche River Basin	(06)
Mississippi River Basin	(07)
Ouachita River Basin	(08)
Pearl River Basin	(09)
Red River Basin	(10)
Sabine River Basin	(11)
Terrebonne Basin	(12)

B. Explanation of Water Body Code Number

Water Body Subsegment Number and Unique Water Body Identification Code = AABBCC-XXXXX where:

AA = Water Quality Management Basin Number

BB = Segment Number

CC = Subsegment Number

XXXXX = Five Digit Unique Water Body Identification Code (If a Unique Water Body Identification Code is not identified for a particular Subsegment, then all water bodies within that Subsegment have the same designated uses and numerical criteria.)

Example:

090207-05112 Water Body Subsegment and Identification Code for Morgan Bayou

09 = Pearl River Management Basin

0902 = Segment 0902 of the Pearl River Management Basin

090207 = Subsegment 090207 of Pearl River Management Basin Segment 02

05112 = Five Digit Unique Water Body Identification Code for Morgan Bayou

C. Numerical Criteria Unit Definitions

- 1. Parameter Abbreviations. The following lists abbreviations of water quality parameters that are used in Table 3 under the subheading "CRITERIA."
 - CL Chlorides in mg/L
 - SO₄ Sulfates in mg/L

DO Dissolved Oxygen in mg/L

pH Range Range of pH Units

BAC Bacterial Criteria (See Below)

TEMP Temperature in Degrees Centigrade (°C)

TDS Total Dissolved Solids in mg/L

N/A Not Available at Present

Numbers in brackets (e.g. [1]) refer to endnotes listed at the end of the table.

- 2. Bacterial Criteria (BAC). The following are the category definitions of Bacterial Criteria that are used in Table 3 under the subheading "NUMERICAL CRITERIA."
 - 1- Primary Contact Recreation
 - 2- Secondary Contact Recreation
 - 3- Drinking Water Supply
 - 4- Oyster Propagation

Numbers in brackets (e.g. [1]) refer to endnotes listed at the end of the table.

- 3. Designated Uses. The following are the category definitions of Designated Uses that are used in Table 3 under the subheading "DESIGNATED USES."
 - A- Primary Contact Recreation
 - **B- Secondary Contact Recreation**
 - C- Propagation of Fish and Wildlife
 - L- Limited Aquatic Life and Wildlife Use
 - **D- Drinking Water Supply**
 - E- Oyster Propagation
 - F- Agriculture
 - G- Outstanding Natural Resource Waters

Numbers in brackets (e.g. [1])—refer to endnotes listed at the end of the table.

A - primary contact recreation; B - secondary contact recreation; C - propagation of fish and wildlife; D - drinking water supply;

			Criteria								
Code	Stream Description	Designated Uses	CL	SO ₄	DO	pН	B A C	°C	TDS		
	ATCHAFALAYA RIVER BASIN										
	(01)										
010101	Atchafalaya River Headwaters and Floodplain - Old River Control Structure to Simmesport (Includes Old River Diversion Channel, Lower Red River, Lower Old River)	АВС	65	70	5.0	6.5- 8.5	1	33	440		
010201	Atchafalaya River Mainstem - Simmesport to Whiskey Bay Pilot Channel at mile 54	ABCD	65	70	5.0	6.5- 8.5	1	33	440		
010301	West Atchafalaya Basin Floodway - Simmesport to Butte LaRose Bay and Henderson Lake	ABC	65	70	5.0	6.5- 8.5	1	33	440		
010401	East Atchafalaya Basin and Morganza Floodway South to Interstate 10 Canal	АВС	65	70	5.0	6.5- 8.5	1	33	440		
010501	Lower Atchafalaya Basin Floodway - Whiskey Bay Pilot Channel at mile 54 to U.S. Hwy. 90 Bridge in Morgan City (includes Grand Lake and Six-Mile Lake)	ABCD	65	70	5.0	6.5- 8.5	1	33	440		
010502	Intracoastal Waterway (Morgan City - Port Allen Route) - Bayou Sorrel Lock to Morgan City	ABC	65	70	5.0	6.5- 8.5	1	33	440		
010601	Crow Bayou, Bayou Blue and Tributaries	ABC	80	50	5.0	6.0- 8.5	1	32	350		
010701	Bayou Teche - Berwick to Wax Lake Outlet	ABC	80	50	5.0	6.0- 8.5	1	32	350		
010801	Lower Atchafalaya River - U.S. Hwy. 90 Bridge in Morgan City to Atchafalaya Bay, includes Sweetwater Lake and Bayou Shaffer	ABC	500	150	5.0	6.5- 9.0	1	35	1,000		
010802	Wax Lake Outlet - From U.S Hwy 90 Bridge to Atchafalaya Bay, includes Wax Lake	ABC	500	150	5.0	6.5- 9.0	1	35	1,000		
010803	Intracoastal Waterway - Bayou Boeuf Lock to Bayou Sale	ABC	65	70	5.0	6.0- 8.5	1	32	440		
010901	Atchafalaya Bay and Delta and Gulf Waters to the State three-mile limit BARATARIA BASIN (02)	ABCE	N/A	N/A	5.0	6.5- 9.0	4	32	N/A		
020101	Bayou Verret, Bayou Chevreuil, Bayou Citamon and Grand Bayou	ABCF	65	50	5.0	6.0- 8.5	1	32	430		
020102	Bayou Boeuf, Halpin Canal, and Theriot Canal	ABCF	500	150	5.0	6.0- 8.5	1	32	1,000		
020103	Lake Boeuf	ABC	500	150	5.0	6.0- 8.5	1	32	1,000		

A - primary contact recreation; B - secondary contact recreation; C - propagation of fish and wildlife; D - drinking water supply;

	x 341		Tal Pr		Criteria						
A s	ile Will		CL	SO ₄	DO	pН	В	°C	TDS		
Codo	Stucem Description	Designated Uses					A				
Code	Stream Description		600	100	5.0	60	C	22	1 220		
020201	Bayou Des Allemands - Lac Des Allemands to Hwy. U.S. 90 (Scenic)	ABCG	600	100	5.0	6.0- 8.5	1	32	1,320		
020202	Lac Des Allemands	ABC	600	100	5.0	6.0-	1	32	1,320		
020202	Ede Des / Memanas	l nbc		100] 5.0	8.5	1	32	1,520		
020301	Bayou Des Allemands Hwy. U.S. 90	ABCG	600	100	5.0	6.0-	1	32	1,320		
	to Lake Salvador (Scenic)					8.5					
020302	Bayou Gauche	ABC	600	100	5.0	6.0-	1	32	1,320		
			ļ			8.5					
020303	Lake Cataouatche and Tributaries	ABC	500	150	5.0	6.0-	1	32	1,000		
			600	100		8.5	<u> </u>				
020304	Lake Salvador	ABC	600	100	5.0	6.0- 8.5	1	32	1,320		
020401	Bayou Lafourche - Donaldsonville	ABCD	70	55	5.0	6.0-	1	32	500		
020401	to Intracoastal Waterway at Larose	ABCD	/	33	3.0	8.5	'	32	300		
020402	Bayou Lafourche - Intracoastal	АВС	N/A	N/A	4.0	6.5-	1	32	N/A		
020.02	Waterway at Larose to Yankee		1	- "		9.0					
	Canal (Estuarine)										
020403	Bayou Lafourche - Yankee Canal	ABCE	N/A	N/A	4.0	6.5-	4	32	N/A		
	and Saltwater Barrier to Gulf of					9.0					
	Mexico (Estuarine)		ļ				ļ				
020501	St. Charles Parish Canals and	ABC	65	50	5.0	6.0-	1	32	430		
020601	Bayous in Segment 0205	A D C) T/A	21/4	1.0	8.5	 	25	D.T./ A		
020601	Intracoastal Waterway - Bayou Villars to Mississippi River	ABC	N/A	N/A	4.0	6.5- 9.0	1	35	N/A		
	(Estuarine)		1			9.0	}				
020701	Bayou Segnette - origin to Bayou	ABC	600	100	5.0	6.0-	1	32	1,320		
===	Villars	112 0	***		""	8.5	'		.,520		
020801	Intracoastal Waterway - Larose to	ABC	N/A	N/A	4.0	6.5-	1	35	N/A		
	Bayou Villars and Bayou Barataria					9.0					
	(Estuarine)										
020802	Bayou Barataria/Barataria	ABC	N/A	N/A	4.0	6.5-	1	35	N/A		
	Waterway-Intracoastal Waterway to		ŀ			9.0	-				
020901	Bayou Rigolettes (Estuarine) Bayou Rigolettes & Bayou Perot to	ABCE	N/A	N/A	4.0	6.5-	4	35	N/A		
020901	Little Lake (Estuarine)	ABCE	IN/A	IN/A	4.0	9.0	4	33	IN/A		
020902	Little Lake (Estuarine)	ABCE	N/A	N/A	4.0	6.5-	4	35	N/A		
020702	2.000 2.000 (2.000.000)	11202	''''	1 11/12	,,,	9.0	ľ		1,7,1.		
020903	Barataria Waterway (Estuarine)	ABC	N/A	N/A	4.0	6.5-	1	35	N/A		
	-					9.0					
020904	Wilkinson Canal and Wilkinson	ABCE	N/A	N/A	4.0	6.5-	4	35	N/A		
	Bayou (Estuarine)		ļ			9.0					
020905	Bayou Moreau (Estuarine)	ABCE	N/A	N/A	4.0	6.5-	4	35	N/A		
020006	Day Rombo (Estrucion)	ARCE	DI/A	NI/A	4.0	9.0	A	25	NT/A		
020906	Bay Rambo (Estuarine)	АВСЕ	N/A	N/A	4.0	6.5-	4	35	N/A		
	I .	l	1	1		9.0	1		ļ		

A - primary contact recreation; B - secondary contact recreation; C - propagation of fish and wildlife; D - drinking water supply;

		(1.1.2.1 (1.1.2.1 (1.1.2.1)	SUL.	2004)		Criteria		:	
		Designated	CL	SO₄	DO	pН	B	°C	TDS
Code	Stream Description	Uses					C		
020907	Bay Sansbois and Lake Washington (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A
021001	Bastian Bay, Adams Bay, Scofield Bay, Coquette Bay, Tambour Bay, Spanish Pass, and Bay Jacques (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 8.5	4	35	N/A
021101	Barataria Bay (including Caminada Bay, Hackberry Bay, Bay Batiste, and Bay Long) (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A
021102	Barataria Basin Coastal Bays and Gulf Waters to the State three-mile limit	ABCE	N/A	N/A	5.0	6.5- 9.0	4	32	N/A
030101	CALCASIEU RIVER BASIN (03) Calcasieu River - Headwaters to La. Hwy. 8	ABCF	65	35	5.0	6.0- 8.5	1	32	225
030102	Calcasieu River - La. Hwy. 8 to the Rapides-Allen Parish line (Scenic)	ABCFG	65	35	5.0	6.0- 8.5	1	32	225
030103	Calcasieu River - Rapides-Allen Parish line to confluence with Marsh Bayou (Scenic) [10]	ABCFG- [10]	65	35	5.0	6.0- 8.5	1	32	225
030103 -04075	Kinder Ditch - Headwaters (unnamed tributary) to confluence with Calcasieu River	ВС	65	35	3.0	6.0- 8.5	1	32	225
030104	Mill Creek - Headwaters near Elizabeth to Calcasieu River	АВС	60	60	5.0	6.0- 8.5	1	32	250
030201	Calcasieu River - Confluence with Marsh Bayou to Saltwater Barrier (Scenic) [11]	ABCFG- [11]	350	40	[1]	6.0- 8.5	1	32	500
030301	Calcasieu River and Ship Channel - Saltwater Barrier to Moss Lake (Estuarine) (Includes Coon Island and Clooney Island Loops)	АВС	N/A	N/A	4.0	6.0- 8.5	1	35	N/A
030302	Lake Charles	ABC	N/A	N/A	5.0	6.0- 8.5	1	35	N/A
030303	Prien Lake	АВС	N/A	N/A	5.0	6.0- 8.5	1	35	N/A
030304	Moss Lake (Estuarine)	АВС	N/A	N/A	4.0	6.0- 8.5	1	35	N/A
030305	Contraband Bayou (Estuarine)	АВС	N/A	N/A	4.0	6.0- 8.5	1	35	N/A
030306	Bayou Verdine (Estuarine)	АВС	N/A	N/A	4.0	6.0- 8.5	1	35	N/A
030401	Calcasieu River - Calcasieu Ship Channel Below Moss Lake to the Gulf of Mexico (Estuarine) (Includes Monkey Island Loop)	АВСЕ	N/A	N/A	4.0	6.0- 8.5	4	35	N/A

A - primary contact recreation; B - secondary contact recreation; C - propagation of fish and wildlife; D - drinking water supply;

						Criteria	J. 5980	h.	
			CL	SO ₄	DO	pH	В	°C	TDS
		Designated					A		
Code	Stream Description	Uses					C		
030402	Calcasieu Lake	ABCE	N/A	N/A	5.0	6.0-	4	32	N/A
030403	Black Lake (Estuarine)	ABC	N/A	N/A	4.0	8.5 6.0-	1	35	N/A
030403	Black Lake (Estuarlie)	ABC	IN/A	IN/A	4.0	8.5	1	33	IN/A
030501	Whiskey Chitto Creek - Headwaters	ABC	20	20	5.0	6.0-	1	30	150
050501	to southern boundary of Fort Polk					8.5			120
	Military Reservation								
030502	Whiskey Chitto Creek - From the	ABCG	20	20	5.0	6.0-	1	30	150
	southern boundary of Fort Polk					8.5			
	Military Reservation to its entrance			}	ŀ		1		
	into the Calcasieu River (Scenic)						<u> </u>		
030503	East and West Forks of Six Mile	ABC	20	20	5.0	6.0-	1	30	150
	Creek - Headwaters to the southern				ĺ	8.5			
	boundary of Fort Polk Military Reservation								
030504	Six Mile Creek - Including the East	ABCG	20	20	5.0	6.0-	1	30	150
05050-1	and West Forks from the southern	l noco		20] 5.0	8.5	1		150
	boundary of Fort Polk Military			<u> </u>			İ		l
	Reservation to its entrance into				:				
	Whiskey Chitto Creek (Scenic)								
030505	Ten Mile Creek - Headwaters to its	ABCG	20	20	5.0	6.0-	1	30	150
	entrance into Whiskey Chitto Creek					8.5			
	(Scenic)						<u></u>		
030506	Bundicks Creek - Headwaters to	ABC	20	20	5.0	6.0-	1	30	150
020507	Bundicks Lake	ABC	20	20	5.0	8.5 6.0-	1	30	150
030507	Bundicks Lake	ABC	20	20	3.0	8.5	1	30	130
030508	Bundicks Creek - From Bundicks	ABC	20	20	5.0	6.0-	1	30	150
030300	Lake to Whiskey Chitto Creek	""	20	20	3.0	8.5	^		150
030601	Barnes Creek - Headwaters to	ВС	60	60	[2]	6.0-	2	30	150
	entrance of Little Barnes Creek				` '	8.5	ı		
030602	Barnes Creek - From entrance of	ABC	60	60	5.0	6.0-	1	32	250
	Little Barnes Creek to confluence					8.5			
	with Calcasieu River								
030603	Marsh Bayou - Headwaters to	ABC	60	60	5.0	6.0-	1	32	250
000501	Calcasieu River	1 8 6 5	1 222	<u> </u>		8.5			200
030701	Bayou Serpent	ABCF	250	75	5.0	6.0-	1	32	300
030702	English Bayou - Headwaters to	ABCF	250	75	[3]	8.5 6.0-	1	32	300
030702	Calcasieu River	ABCI	230	13	[5]	8.5	1	32	300
030801	West Fork Calcasieu River - From	ABCF	250	75	[3]	6.0-	1	34	500
550001	confluence with Beckwith Creek	1.201	230	/5	[~]	8.5	1		200
	and Hickory Branch to Calcasieu					""			
	River								
030802	Hickory Branch - Headwaters to	ABCF	250	75	5.0	6.0-	1	32	500
	West Fork Calcasieu River]]		8.5			

A - primary contact recreation; B - secondary contact recreation; C - propagation of fish and wildlife; D - drinking water supply;

						Criteria	25 S - 24 S		Approximations.
Service of			CL	SO ₄	DO	pН	В	°C	TDS
Code	Stream Description	Designated Uses					A C		
030803	Beckwith Creek - Headwaters to	ABCF	25	25	5.0	6.0-	1	32	100
030003	West Fork Calcasieu River	A B C I	23	23] 3.0	8.5	1	32	100
030804	Little River - Headwaters to West	ABC	250	75	[3]	6.0-	1	34	500
	Fork Calcasieu River					8.5			
030805	Indian Bayou - Headwaters to West	ABCF	250	75	[3]	6.0-	1	34	500
	Fork Calcasieu River					8.5	<u> </u>	ļ	,
030806	Houston River - From junction with	ABCF	250	75	[3]	6.0-	1	32	500
	Bear Head Creek at Parish Road to					8.5			
000007	West Fork Calcasieu River	A D C	250	7.5	5.0	()	ļ.,		500
030807	Bear Head Creek - Headwaters to	ABC	250	75	5.0	6.0- 8.5	1	32	500
	junction with Houston River at Parish Road					د.ه			
030901	Bayou D'Inde - Headwaters to	ABC	N/A	N/A	4.0	6.5-	1	35	N/A
030701	Calcasieu River (Estuarine)	1		1 " " 1		8.5	1 ^		1 1771
031001	Bayou Choupique - Headwaters to	ABC	N/A	N/A	4.0	6.0-	1	35	N/A
	Intracoastal Waterway (Estuarine)					8.5			
031002	Intracoastal Waterway - West	ABC	N/A	N/A	4.0	6.0-	1	35	N/A
	Calcasieu River Basin Boundary to					8.5			
	Calcasieu Lock (Estuarine)					ļ			
031101	Intracoastal Waterway - Calcasieu	ABC	250	75	5.0	6.5-	1	32	500
	Lock to East Calcasieu River Basin					9.0			
031201	Boundary Calcasieu River Basin - Coastal	ABCE	N/A	N/A	5.0	6.0-	4	32	N/A
031201	Bays and Gulf Waters to the State	ABCE	IN/A	IN/A	3.0	9.0	4	32	N/A
	three mile limit	1				7.0			
	LAKE PONTCHARTRAIN BASIN						Jy - I		
	(04)		100						
040101	Comite River - From Little Comite	ABC	25	10	5.0	6.0-	1	32	150
	Creek and Comite Creek at			1		8.5			
	Mississippi State Line to	Į.		Į		ļ			
	Wilson-Clinton Hwy. (East					İ			
040102	Feliciana Parish)	ARCC	25	10	5.0	6.0	1	22	150
040102	Comite River - Wilson-Clinton Hwy. to entrance of White Bayou	ABCG	25	10	5.0	6.0- 8.5	1	32	150
	(East Baton Rouge Parish) (Scenic)			1		0.5			
040103	Comite River - Entrance of White	ABC	25	10	5.0	6.0-	1	32	150
010103	Bayou to Amite River	1.20]		2,0	8.5	1	"-	100
040201	Bayou Manchac - Headwaters to	ABC	25	10	5.0	6.0-	1	32	150
	Amite River					8.5			
040301	Amite River - Mississippi State Line	ABCG	25	10	5.0	6.0-	1	32	150
	to LA Hwy. 37 (Scenic)					8.5		<u> </u>	
040302	Amite River - LA Hwy. 37 to Amite	ABC	25	10	5.0	6.0-	1	32	150
	River Diversion Canal					8.5			
040303	Amite River - Amite River	ABC	25	10	5.0	6.0-	1	32	150
	Diversion Canal to Lake Maurepas	J	!			8.5	1		

A - primary contact recreation; B - secondary contact recreation; C - propagation of fish and wildlife; D - drinking water supply;

			Criteria							
			CL	SO ₄	DO	pН	В	°C	TDS	
Code	Stream Description	Designated Uses					A C			
040304	Grays Creek - Headwaters to Amite River	ABC	25	10	5.0	6.0- 8.5	1	32	150	
040305	Colyell Creek System (includes Colyell Bay)	ABC	25	10	5.0	6.0- 8.5	1	32	150	
040401	Blind River - From Amite River Diversion Canal to mouth at Lake Maurepas (Scenic)	ABCG	250	75	4.0 [9]	6.0- 8.5	1	30	500	
040402	Amite River Diversion Canal	ABC	25	10	5.0	6.0- 8.5	1	32	150	
040403	Blind River - Source to confluence with Amite River Diversion Canal (Scenic)	ABCG	250	75	3.0 [9]	6.0- 8.5	ı	30	500	
040404	New River - Headwaters to New River Canal	ABC	250	75	5.0	6.0- 8.5	1	30	500	
040501	Tickfaw River - From Mississippi State Line to LA Hwy 42 (Scenic)	ABCG	10	5	5.0	6.0- 8.5	1	30	55	
040502	Tickfaw River - LA Hwy. 42 to Lake Maurepas	ABC	10	5	5.0	6.0- 8.5	1	30	55	
040503	Natalbany River - Headwaters to Tickfaw River	ABC	30	20	5.0	6.0- 8.5	1	30	150	
040504	Yellow Water River - Origin to Ponchatoula Creek	ABC	30	20	5.0	6.0- 8.5	1	30	150	
040505	Ponchatoula Creek and Ponchatoula River	ABC	30	20	5.0	6.0- 8.5	1	30	150	
040601	Pass Manchac - Lake Maurepas to Lake Pontchartrain	ABC	1,60 0	200	5.0	6.5- 9.0	1	32	3,000	
040602	Lake Maurepas	АВС	1,60 0	200	5.0	6.0- 8.5	1	32	3,000	
040603	Selsers Creek - Origin to South Slough	АВС	30	20	5.0	6.0- 8.5	1	30	150	
040604	South Slough - includes Anderson Canal to I-55 borrow pit	ABC	30	20	5.0	6.0- 8.5	1	30	150	
040701	Tangipahoa River - Mississippi State Line to Interstate Highway I-12 (Scenic)	ABCG	30	10	5.0	6.0- 8.5	1	30	140	
040702	Tangipahoa River - From Interstate Highway I-12 to Lake Pontchartrain	ABC	30	10	5.0	6.0- 8.5	1	30	140	
040703	Big Creek and Tributaries - Headwaters to confluence with Tangipahoa River	АВС	20	20	5.0	6.0- 8.5	1	30	140	
040704	Chappepeela Creek - From Louisiana Hwy. 1062 to its entrance into the Tangipahoa River	ABCG	20	20	5.0	6.0- 8.5	1	30	140	
040801	Tchefuncte River and Tributaries - Headwaters to confluence with Bogue Falaya River (Scenic)	ABCG	20	10	5.0	6.0- 8.5	1	30	110	

A - primary contact recreation; B - secondary contact recreation; C - propagation of fish and wildlife; D - drinking water supply;

			Criteria							
			CL	SO ₄	DO	pН	В	°C	TDS	
Codo	Stroom Description	Designated					A			
Code 040802	Stream Description Lower Tchefuncte River - From the	Uses A B C G	850	135	5.0	6.0-	C	30	1,850	
040802	Bogue Falaya River down to La. Hwy. 22, excluding any tributaries	ABCG	830	133	3.0	8.5	1	30	1,830	
	from the Bogue Falaya River south to La. Hwy. 22 (Scenic)									
040803	Lower Tchefuncte River - From La. Hwy. 22 to Lake Pontchartrain (Estuarine)	ABC	850	135	4.0	6.0- 8.5	1	30	1,850	
040804	Bogue Falaya River - Headwaters to Tchefuncte River (Scenic) [12]	A B C G- [12]	20	10	5.0	6.0- 8.5	1	30	110	
040901	Bayou LaCombe - Headwaters to U.S. 190 (Scenic)	ABCG	30	30	5.0	6.0- 8.5	1	30	150	
040902	Bayou LaCombe - U.S. 190 to Lake Pontchartrain (Scenic) (Estuarine)	ABCG	835	135	4.0	6.0- 8.5	1	32	1,850	
040903	Bayou Cane - Headwaters to U.S. Hwy. 190 (Scenic)	ABCG	30	30	5.0	6.0- 8.5	1	30	150	
040904	Bayou Cane - U.S. Hwy 190 to Lake Pontchartrain (Scenic) (Estuarine)	ABCG	N/A	N/A	4.0	6.0- 8.5	1	32	N/A	
040905	Bayou Liberty - Headwaters to LA Highway 433	ABC	250	100	5.0	6.0- 8.5	1	32	500	
040906	Bayou Liberty - LA Highway 433 to confluence with Bayou Bonfouca (Estuarine)	ABC	N/A	N/A	4.0	6.0- 8.5	1	32	N/A	
040907	Bayou Bonfouca - Headwaters to LA Highway 433	ABC	250	100	5.0	6.0- 8.5	1	32	500	
040908	Bayou Bonfouca - LA Highway 433 to Lake Pontchartrain (Estuarine)	ABC	N/A	N/A	4.0	6.0- 8.5	1	32	N/A	
040909	W-14 Main Diversion Canal - from its origin in the north end of the City of Slidell to its junction with Salt Bayou	A B C [4]	N/A	N/A	[4]	6.0- 8.5	1	32	N/A	
040910	Salt Bayou - Headwaters to Lake Pontchartrain (Estuarine)	ABC	N/A	N/A	4.0	6.0- 8.5	1	32	N/A	
040911	Grand Lagoon - Grand Lagoon and Associated Canals (Estuarine)	ABC	N/A	N/A	4.0	6.0- 8.5	1	32	N/A	
041001	Lake Pontchartrain - West of Highway 11 Bridge (Estuarine)	ABC	N/A	N/A	4.0	6.5- 9.0	1	32	N/A	
041002	Lake Pontchartrain - East of Highway 11 Bridge (Estuarine)	АВСЕ	N/A	N/A	4.0	6.5- 9.0	4	32	N/A	
041101	Bonnet Carre Spillway	ABC	250	75	5.0	6.0- 8.5	l	30	500	
041201	Bayou Labranche - Headwaters to Lake Pontchartrain (Scenic) (Estuarine)	ABCG	N/A	N/A	4.0	6.0- 8.5	1	32	N/A	
041202	Bayou Trepagnier - Norco to Bayou Labranche (Scenic) (Estuarine)	ABCG	N/A	N/A	4.0	6.0- 8.5	1	32	N/A	

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Code	Stream Description	Designated	CL	SO ₄	DO	pН	B	°C	TDS
		Uses				C			
041203	Duncan Canal (Parish Line Canal) - From source at Kenner corporation limits to Lake Pontchartrain (Estuarine)	АВС	N/A	N/A	4.0	6.5- 8.5	1	32	N/A
041301	Bayou St. John (Scenic) (Estuarine)	ABCG	N/A	N/A	4.0	6.0- 8.5	1	32	N/A
041302	Lake Pontchartrain Drainage Canals, Jefferson and Orleans Parishes (Estuarine)	АВС	N/A	N/A	4.0	6.0- 8.5	1	32	N/A
041401	New Orleans East Leveed Waterbodies (Estuarine)	ABC	N/A	N/A	4.0	6.0- 8.5	1	32	N/A
041501	Inner Harbor Navigation Canal - Mississippi River Lock to Lake Pontchartrain (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	35	N/A
041601	Intracoastal Waterway - Inner Harbor Navigation Canal to Chef Menteur Pass (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A
041701	Rigolets (Estuarine)	АВС	N/A	N/A	4.0	6.5 - 9.0	1	32	N/A
041702	Bayou Sauvage - New Orleans hurricane protection levee to Chef Menteur Pass and Chef Menteur Pass (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	32	N/A
041703	Intracoastal Waterway - from Chef Menteur Pass to Mississippi State Line at Rigolets (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	32	N/A
041704	Lake St. Catherine	ABC	N/A	N/A	5.0	6.5- 9.0	1	32	N/A
041801	Bayou Bienvenue - Headwaters to Hurricane Gate at Mississippi River Gulf Outlet (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	35	N/A
041802	Bayou Chaperon - origin to end (Scenic)(Estuarine)	ABCG	N/A	N/A	4.0	6.5- 9.0	1	35	N/A
041803	Bashman Bayou - origin to Bayou Dupre (Scenic) (Estuarine)	ABCG	N/A	N/A	4.0	6.5- 9.0	1	35	N/A
041804	Bayou Dupre - Lake Borgne Canal to Terre Beau Bayou (Scenic) (Estuarine)	ABCG	N/A	N/A	4.0	6.5- 9.0	1	35	N/A
041805	Lake Borgne Canal (Violet Canal) - Mississippi River siphon at Violet to Bayou Dupre (Scenic) (Estuarine)	ABCG	N/A	N/A	4.0	6.5- 9.0	1	35	N/A
041806	Pirogue Bayou - Bayou Dupre to New Canal (Scenic) (Estuarine)	ABCG	N/A	N/A	4.0	6.5- 9.0	1	35	N/A
041807	Terre Beau Bayou - Bayou Dupre to New Canal (Scenic) (Estuarine)	ABCG	N/A	N/A	4.0	6.5- 9.0	1	35	N/A

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				Criteria						
Code	Stream Description	Designated Uses	CL	SO ₄	DO	рĦ	B A C	°C	TDS	
041808	New Canal (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	35	N/A	
041901	Mississippi River Gulf Outlet - Intracoastal Waterway to Breton Sound (mile 30)	АВСЕ	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
042001	Lake Borgne	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
042002	Bayou Bienvenue - Bayou Villere to Lake Borgne (Scenic) (Estuarine)	ABCEG	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
042003	Bayou La Loutre - Mississippi River Gulf Outlet to Chandeleur Sound (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
042004	Bayou Bienvienue - Mississippi River Gulf Outlet to Bayou Villere (Estuarine)	АВСЕ	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
042101	Bayou Terre Aux Boeufs (Estuarine)	АВСЕ	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
042102	River Aux Chenes (Oak River) (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
042103	Bayou Gentilly - From Bayou Terre Aux Boeufs to Lake Petite (Estuarine)	АВСЕ	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
042104	Lake Petit	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
042105	Lake Lery	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
042201	Chandeleur Sound	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
042202	California Bay, Breton Sound	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
042203	Bay Boudreau	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
042204	Drum Bay	АВСЕ	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
042205	Morgan Harbor	АВСЕ	N/A	N/A	5.0	6.5 - 9.0	4	35	N/A	
042206	Eloi Bay	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
042207	Lake Lafortuna	АВСЕ	N/A	N/A	5.0	6.5-	4	35	N/A	
042208	Bay Gardene, Black Bay, Lost Bayou, American Bay, and Bay Crabe	ABCE	N/A	N/A	5.0	9.0 6.5- 9.0	4	35	N/A	
042209	Lake Pontchartrain Basin Coastal Bays and Gulf Waters to State three- mile limit	АВСЕ	N/A	N/A	5.0	6.5- 9.0	4	32	N/A	

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i.				:		Criteria			
			CL	SO ₄	DO	pН	В	°C	TDS
		Designated					A		
Code	Stream Description	Uses					C	10 h 10 h	
	MERMENTAU RIVER BASIN (05)								
050101	Bayou Des Cannes - Headwaters to	ABCF	90	30	[16]	6.0-	1	32	260
050102	Mermentau River Bayou Joe Marcel - Headwaters to	ABCF	90	30	[16]	8.5 6.0-	1	32	260
050102	Bayou Des Cannes	ALD CI		30	[10]	8.5			200
050103	Bayou Mallet - Headwaters to Bayou Des Cannes	ABCF	90	30	[16]	6.0- 8.5	1	32	260
050201	Bayou Plaquemine Brule -	ABCF	90	30	[16]	6.0-	1	32	260
050301	Headwaters to Bayou Des Cannes Bayou Nezpique - Headwaters to	ABCF	90	30	[16]	8.5 6.0-	1	32	260
030301	Mermentau River	ABCI)0		[10]	8.5		52	200
050302	Beaver Creek - Headwaters to confluence with Boggy Creek	ВС	90	30	[2]	6.0- 8.5	2	32	260
050303	Castor Creek-Headwaters to	ABC	90	30	[16]	6.0-	1	32	260
	confluence with Bayou Nezpique		<u> </u>			8.5		<u> </u>	
050304	Bayou Blue - Headwaters to confluence with Bayou Nezpique	АВС	90	30	[16]	6.0- 8.5	1	32	260
050401	Mermentau River - Origin to Lake Arthur	ABCF	90	30	[16]	6.0- 8.5	1	32	260
050402	Lake Arthur and Lower Mermentau River to Grand Lake	АВС	90	30	5.0	6.0- 8.5	1	32	260
050501	Bayou Queue de Tortue - Headwaters to Mermentau River	ABCF	90	30	[16]	6.0- 8.5	1	32	260
050601	Lacassine Bayou – Headwaters to Grand Lake	ABCF	90	10	[16]	6.0- 8.5	1	32	400
050602	Intracoastal Waterway - From the Calcasieu River Basin Boundary to the Mermentau River	ABCF	250	75	5.0	6.5- 9.0	1	32	500
050603	Bayou Chene - includes Bayou Grand Marais	ABCF	90	10	5.0	6.5- 9.0	1	32	400
050701	Grand Lake	ABCF	250	75	5.0	6.5- 9.0	1	32	500
050702	Intracoastal Waterway - Mermentau River to Vermilion Locks	ABCF	250	75	5.0	6.0- 9.0	1	32	500
050703	White Lake	ABCF	250	75	5.0	6.5- 9.0	1	32	500
050801	Mermentau River - Catfish Point Control Structure to Gulf of Mexico (Estuarine)	АВСЕ	N/A	N/A	4.0	6.5- 9.0	4	35	N/A
050802	Big Constance Lake and Associated Waterbodies (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	35	N/A
050901	Mermentau River Basin Coastal Bays and Gulf Waters to the State three-mile limit	ABCE	N/A	N/A	5.0	6.5- 9.0	4	32	N/A

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			Criteria						
		Designated	. CL	SO ₄	DO	pН	B	°C	TDS
Code	Stream Description	Uses			, in	ali izan.	C		
	VERMILION-TECHE RIVER BASIN (06)		W. W.						
060101	Spring Creek - Headwaters to Cocodrie Lake (Scenic)	ABCG	10	5	5.0	6.0- 8.5	1	30	100
060102	Cocodrie Lake	ABC	10	5	5.0	6.0- 8.5	1	32	100
060201	Bayou Cocodrie - from U.S. Hwy. 167 to the Bayou Boeuf - Cocodrie Diversion Canal (Scenic)	ABCG	45	35	5.0	6.0- 8.5	1	32	100
060202	Bayou Cocodrie - from Cocodrie Diversion Canal to intersection with Bayou Boeuf	ABC	45	35	5.0	6.0- 8.5	1	32	100
060203	Chicot Lake	ABC	90	30	5.0	6.0- 8.5	1	32	260
060204	Bayou Courtableau - origin to West Atchafalaya Borrow Pit Canal	ABC	40	30	5.0	6.0- 8.5	1	32	220
060206	Indian Creek and Indian Creek Reservoir	ABCD	10	5	5.0	6.0- 8.5	1	32	100
060207	Bayou des Glaises Diversion Channel/West Atchafalaya Borrow Pit Canal - from Bayou des Glaises to Bayou Courtableau	ABC	100	75	5.0	6.0- 8.5	1	32	500
060208	Bayou Boeuf - Headwaters to Bayou Courtableau	АВС	45	35	5.0	6.0- 8.5	1	32	100
060209	Irish Ditch/Big Bayou - Unnamed Ditch to Irish Ditch (Ditch No. 1) to Big Bayou to Irish Ditch No. 2 to Confluence with Bayou Rapides	ВС	45	35	[2]	6.0- 8.5	2	32	100
060210	Bayou Carron	ABC	40	30	5.0	6.0- 8.5	1	32	220
060211	West Atchafalaya Borrow Pit Canal - from Bayou Courtableau to Henderson, La., includes Bayou Portage	АВС	40	30	5.0	6.0- 8.5	1	32	220
060212	Chatlin Lake Canal and Bayou DuLac - from Alexandria, La., to Bayou des Glaises Diversion Canal (includes 0602 segment of Bayou Des Glaises)	АВС	45	35	5.0	6.0- 8.5	1	32	100
060301	Bayou Teche – Headwaters at Bayou Courtableau to Keystone Locks and Dam	АВС	40	30	5.0	6.0- 8.5	1	32	220
060401	Bayou Teche - Keystone Locks and Dam to Charenton Canal	ABC	80	50	5.0	6.0- 8.5	1	32	350
060501	Bayou Teche - Charenton Canal to Wax Lake Outlet	ABCD	80	50	5.0	6.0- 8.5	1	32	350

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						Criteria					
			CL	SO ₄	DO	pН	В	°C	TDS		
		Designated					A				
Code	Stream Description	Uses					C				
060601	Charenton Canal - From Charenton	ABC	250	75	5.0	6.0-	1	32	500		
	Floodgate to Intracoastal Waterway,					8.5					
	includes Bayou Teche from										
060701	Charenton to Baldwin	ABC	90	50	5.0	6.0-	 	32	350		
060701	Tete Bayou	ABC	80	30	3.0	8.5	1	32	330		
060702	Lake Fausse Point and Dauterive	ABC	80	50	5.0	6.0-	1	32	350		
000702	Lake Pausse Folia and Danterive	ABC	80	30	3.0	8.5	1	32	330		
060703	Bayou Du Portage	ABC	80	50	5.0	6.0-	1	32	350		
000703	Bayou Bu Fortage	1 11 11	00		3.0	8.5	Ι΄.	1 2	330		
060801	Vermilion River - Headwaters at	ABCF	230	35	5.0	6.0-	$\overline{1}$	32	350		
	Bayou Fusilier-Bourbeaux junction					8.5					
	to New Flanders (Ambassador										
	Caffery) Bridge, Hwy. 3073										
060802	Vermilion River - From New	ABCF	230	35	[6]	6.0-	1	32	350		
	Flanders (Ambassador Caffery)					8.5					
	Bridge, Hwy. 3073, to Intracoastal						1				
	Waterway						<u> </u>				
060803	Vermilion River Cutoff - From	ABC	N/A	N/A	4.0	6.5-	1	35	N/A		
	Intracoastal Waterway to Vermilion					9.0					
060804	Bay (Estuarine)	ABC	N/A	N/A	4.0	6.5-	1	35	N/A		
000804	Intracoastal Waterway - Vermilion Lock to Levee at Segment 0611 and	ABC	IN/A	N/A	4.0	9.0	1	33	1N/A		
	0608 boundary (Estuarine)					9.0					
060805	Breaux Bridge Swamp (Cyprière	ВС	[5]	[5]	[5]	[5]	2		[5]		
000000	Perdue Swamp) - Forested wetland		[[]	ا ا	[2]	[[2]	-	[5]	[~]		
	in St. Martin Parish, 0.5 mile (0.8					}		[-]			
	km) southwest of Breaux Bridge,						į				
	La., southeast of La. Hwy 94, west										
	of Bayou Teche, east of the										
	Vermilion River, and north of the						İ				
	Evangeline and Ruth Canals										
060901	Bayou Petite Anse - Headwaters to	ABC	N/A	N/A	4.0	6.5-	1	35	N/A		
060000	Bayou Carlin (Estuarine)	4 D.C	NT/A	27/4	4.0	9.0	1	25	NIZA		
060902	Bayou Carlin (Delcambre Canal) -	ABC	N/A	N/A	4.0	6.5-	1	35	N/A		
	Lake Peigneur to Bayou Petite Anse (Estuarine)					9.0					
060903	Bayou Tigre - Headwaters to Bayou	ABC	N/A	N/A	4.0	6.5-	1	35	N/A		
000703	Petite Anse (Estuarine)	I ABC	``''	```^	7.0	9.0	'	'	17/73		
060904	New Iberia Southern Drainage	ABC	N/A	N/A	4.0	6.5-	1	35	N/A		
300701	Canal - origin to Weeks Bay	1	**/**	****		9.0	^		1 4/ 1 %		
	(Estuarine)										
060906	Intracoastal Waterway - New Iberia	ABC	N/A	N/A	4.0	6.5-	i	35	N/A		
	Southern Drainage Canal to Bayou					9.0					
	Sale (Estuarine)										

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			Criteria							
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060907	Franklin Canal	ABC	250	75	5.0	6.0- 8.5	1	35	500	
060908	Spanish Lake	ABC	250	75	5.0	6.0- 8.5	1	32	500	
060909	Lake Peigneur	АВС	N/A	N/A	5.0	6.5- 9.0	1	35	N/A	
060910	Boston Canal and Associated Canals (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	35	N/A	
060911	Dugas Canal by Tiger Lagoon Oil and Gas Field (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	35	N/A	
061001	West Cote Blanche Bay	АВСЕ	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
061002	East Cote Blanche Bay	АВСЕ	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
061101	Bayou Petite Anse - Bayou Carlin at Fresh-brackish marsh boundary to Vermilion Bay (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	35	N/A	
061102	Intracoastal Waterway - Levee at Segment 0611 and 0609 boundary to New Iberia Southern Drainage Canal (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	35	N/A	
061103	Freshwater Bayou Canal - from Intracoastal Canal to Control Structure (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	35	N/A	
061104	Vermilion Bay	АВСЕ	N/A	N/A	5.0	6.5- 9.0	4	35	N/A	
061105	Marsh Island (Estuarine)	ABC	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
061201	Vermilion-Teche River Basin - Coastal Bays and Gulf Waters to State three-mile limit	АВСЕ	N/A	N/A	5.0	6.0- 9.0	4	32	N/A	
070101	MISSISSIPPI RIVER BASIN (07) Mississippi River - from Arkansas State Line to Old River Control Structure	АВС	75	120	5.0	6.0- 9.0	1	32	400	
070102	Gassoway Lake	ABC	75	120	5.0	6.0- 8.5	1	32	400	
070103	Marengo Bend (Old River Near Vidalia)	АВС	250	75	5.0	6.0- 8.5	1	32	500	
070201	Mississippi River-from Old River Control Structure to Monte Sano Bayou	ABCD	75	120	5.0	6.0- 9.0	1	32	400	
070202	Old River Lake or Raccourci Lake	АВС	100	75	5.0	6.0- 8.5	1	32	500	
070203	Devil's Swamp Lake and Bayou Baton Rouge	ABC	75	120	5.0	6.0- 8.5	1	32	400	

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				Criteria								
		Designated	CL	SO ₄	DO	pН	B A	°C	TDS			
Code	Stream Description	Uses					C					
070301	Mississippi River - from Monte Sano Bayou to Head of Passes	ABCD	75	120	5.0	6.0- 9.0	1	32	400			
070401	Mississippi River Passes - Head of Passes to Mouth of Passes (Estuarine) (Includes Southwest, South, North Passes and Pass a Loutre)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A			
070402	Baptiste Collette Bayou (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A			
070403	Octave Pass and Main Pass (Estuarine)	ABCE	N/A	N/A	4.0	6.5 - 9.0	4	35	N/A			
070404	Tiger Pass, Red Pass, Grand Pass, Tante Phine Pass (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A			
070501	Bayou Sara - Mississippi State Line to Mississippi River Confluence	ABC	100	75	5.0	6.0- 8.5	1	32	500			
070502	Thompson Creek - Mississippi State Line to Mississippi River Confluence	АВС	100	75	5.0	6.0- 8.5	1	32	500			
070503	Capitol Lake	ABC	75	120	5.0	6.0- 8.5	1	32	400			
070504	Monte Sano Bayou - from U.S. Hwy. 61 to the Mississippi River confluence [7], [8]	BL	[7]	[7]	3.0	6.0- 9.0	1	35 [8]	[7]			
070505	Tunica Bayou - Headwaters to Mississippi River	АВС	100	75	5.0	6.0- 8.5	1	32	500			
070601	Mississippi River Basin Coastal Bays and Gulf Waters to the State three-mile limit	ABCE	N/A	N/A	5.0	6.5- 9.0	4	32	N/A			
080101	OUACHITA RIVER BASIN (08) Ouachita River - Arkansas State Line to Columbia Lock and Dam	ABCD	160	35	[15]	6.0- 8.5	1	33	350			
080102	Bayou Chauvin - Headwaters to the Ouachita River	ABC	160	35	5.0	6.0- 8.5	1	33	350			
080201	Ouachita River - Columbia Lock and Dam to Jonesville	АВС	160	50	5.0	6.0- 8.5	1	33	400			
080202	Bayou Louis - Headwaters to Ouachita River	АВС	250	75	5.0	6.0- 8.5	1	32	500			
080203	Lake Louis	ABC	250	75	5.0	6.0- 8.5	1	32	500			
080301	Black River - Jonesville to Corps of Engineers Control Structure (at Mile 25, Serena)	АВС	95	20	5.0	6.0- 8.5	1	32	265			
080302	Black River - Corps of Engineers Control Structure to Red River	АВС	95	20	5.0	6.0- 8.5	1	32	265			

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- 1			Criteria							
			CL	SO ₄	DO	pН	В	°C	TDS	
Code	Stream Description	Designated Uses	a ja Janaa				A C			
080401	Bayou Bartholomew - Arkansas	ABCG	55	35	5.0	6.0-	1	32	420	
	State Line to Dead Bayou (Lake Bartholomew) (Scenic)					8.5				
080402	Bayou Bartholomew - Dead Bayou (Lake Bartholomew) to Ouachita River	ABC	55	35	5.0	6.0- 8.5	1	32	420	
080501	Bayou de L'Outre - Arkansas State Line to Ouachita River (Scenic)	ABCG	250	45	5.0	6.0- 8.5	1	33	500	
080601	Bayou D'Arbonne - Headwaters to Lake Claiborne	ABCD	50	15	5.0	6.0- 8.5	1	32	200	
080602	Lake Claiborne	ABCD	50	15	5.0	6.0- 8.5	1	32	200	
080603	Bayou D'Arbonne - From Lake Claiborne to Bayou D'Arbonne Lake	ABC	50	15	5.0	6.0- 8.5	1	32	200	
080604	Bayou D'Arbonne Lake	ABC	50	15	5.0	6.0- 8.5	1	32	200	
080605	Bayou D'Arbonne - From Bayou D'Arbonne Lake to Ouachita River (Scenic)	ABCG	50	15	5.0	6.0- 8.5	1	32	200	
080606	Cypress Creek - Headwaters to Bayou D'Arbonne (includes Colvin Creek)	АВС	65	10	5.0	6.0- 8.5	1	32	160	
080607	Corney Bayou - From Arkansas State Line to Corney Lake (Scenic)	ABCG	160	25	5.0	6.0- 8.5	1	32	300	
080608	Corney Lake	ABC	160	25	5.0	6.0- 8.5	1	32	300	
080609	Corney Bayou - From Corney Lake to Bayou D'Arbonne Lake (Scenic)	ABCG	160	25	5.0	6.0- 8.5	1	32	300	
080610	Middle Fork of Bayou D'Arbonne - From origin to Bayou D'Arbonne Lake (Scenic)	ABCG	50	15	5.0	6.0- 8.5	1	32	200	
080701	Bayou Desiard (Oxbow Lake) and Lake Bartholomew (Dead Bayou)	ABCD	25	25	5.0	6.0- 8.5	1	32	100	
080801	Cheniere Creek	ABC	25	25	5.0	6.0- 8.5	1	32	100	
080802	Cheniere Brake Lake	АВС	25	25	5.0	6.0- 8.5	1	32	100	
080901	Boeuf River - Arkansas State Line to Ouachita River	АВС	105	45	5.0	6.0- 8.5	1	32	430	
080902	Bayou Bonne Idee - Headwaters to Boeuf River	ABC	20	10	5.0	6.0- 8.5	1	32	180	
080903	Big Creek - Headwaters to Boeuf River (including Big Colewa Bayou)	ABC	230	75	5.0	6.0- 8.5	1	32	635	
080904	Bayou Lafourche - near Oakridge to Boeuf River near Columbia	ABC	500	200	5.0	6.0- 8.5	1	32	1,500	

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						Criteria			
			CL	SO ₄	DO	pН	В	°C	TDS
~ .		Designated					A		
Code	Stream Description	Uses	250		507		C		500
080905	Turkey Creek Headwaters to Turkey Creek Cutoff and Turkey Creek	ВС	250	75	[2]	6.0- 8.5	2	32	500
	Cutoff to Big Creek including Glade					0.5			
	Slough								
080906	Turkey Creek - From Turkey Creek	ABC	250	75	5.0	6.0-	1	32	500
000700	Cutoff to Turkey Creek Lake			'		8.5	_		
080907	Turkey Creek Lake and Turkey	ABC	250	75	5.0	6.0-	1	32	500
	Creek outfall to Boeuf River					8.5			
080908	Lake LaFourche	ABC	250	75	5.0	6.0-	1	32	500
				<u> </u>		8.5			
080909	Crew Lake	ABC	250	75	5.0	6.0-	1	32	500
						8.5	<u> </u>		
080910	Clear Lake	ABC	250	75	5.0	6.0-	1	32	500
000011	xx 1 7 1	A D C	250	7.5	5.0	8.5	. .	22	500
080911	Woolen Lake	ABC	250	75	5.0	6.0- 8.5	1	32	500
080912	Tisdale Brake/Staulkinghead Creek -	BL	500	200	[13]	6.0-	2	32	1,500
000912	from origin to Little Bayou Boeuf	BL	500	200	[13]	8.5	-		1,500
081001	Bayou Macon - Arkansas State Line	ABC	50	55	5.0	6.0-	1	32	380
001001	to Tensas River	,,,,	••			8.5	_	-	
081002	Joe's Bayou - Headwaters to Bayou	ABC	250	75	5.0	6.0-	1	32	500
	Macon					8.5	l 		
081003	Deer Creek - Headwaters to	BL	105	45	[13]	6.0-	2	32	430
	confluence with Boeuf River					8.5	ļ		
081101	Lake Providence (Oxbow Lake)	ABC	25	25	5.0	6.0-	1	32	150
001001			1.5	20		8.5			500
081201	Tensas River - Headwaters to	ABC	45	30	5.0	6.0- 8.5	1	32	500
081202	Jonesville (including Tensas Bayou) Lake St. Joseph (Oxbow Lake)	ABC	25	25	5.0	6.0-	1	32	150
061202	Lake St. Joseph (Oxbow Lake)	ABC	23	23	3.0	8.5	1	32	130
081203	Lake Bruin (Oxbow Lake)	ABCD	25	25	5.0	6.0-	1	32	150
00.200	Zano Zyani (eneen Zano)				0.0	8.5	-		100
081301	Little River - Archie Dam to	ABC	95	10	5.0	6.0-	1	32	265
	Ouachita River					8.5			
081401	Dugdemona River - Headwaters to	ABC	250	750	[14]	6.0-	1	32	2,000
	junction with Big Creek		ļ			8.5			
081402	Dugdemona River - From Big Creek	АВС	250	750	5.0	6.0-	1	32	2,000
	to Little River					8.5			
081501	Castor Creek - Headwaters to Little	ABC	25	25	5.0	6.0-	1	32	100
001500	River	A D C	25	25	5.0	8.5	1	22	100
081502	Chatham Lake	ABC	25	25	5.0	6.0- 8.5	1	32	100
081503	Beaucoup Creek - Headwaters to	ABC	25	25	5.0	6.0-	1	32	100
001303	Castor Creek	ABC	23	25	۵.0	8.5	1	ےد	100
081504	Flat Creek - Headwaters to Castor	ABC	25	25	5.0	6.0-	1	32	100
	Creek	0]]	8.5		} ~~	.,,

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			Criteria								
		8_0	CL	SO ₄	DO.	pΗ	В	°C	TDS		
Code	* Stream Description	Designated Uses					A C				
081505	Caney Lake	ABC	25	25	5.0	6.0-	1	32	100		
			ļ			8.5					
081601	Little River - Confluence of Castor Creek and Dugdemona River to	ABCG	250	500	5.0	6.0- 8.5	1	33	1,000		
	Junction with Bear Creek (Scenic)										
081602	Little River - From Bear Creek to	ABCG	50	75	5.0	6.0-	1	33	260		
	Catahoula Lake (Scenic)					8.5					
081603	Catahoula Lake	ABC	50	75	5.0	6.0- 8.5	1	33	260		
081604	Catahoula Lake Diversion Canal -	ABC	50	75	5.0	6.0-	1	33	260		
	Catahoula Lake to Black River					8.5					
081605	Little River - From Catahoula Lake to Dam at Archie	ABC	50	75	5.0	6.0- 8.5	1	33	260		
081606	Fish Creek - Headwaters to Little	ABCG	50	75	5.0	6.0-	1	33	260		
	River (Scenic)					8.5					
081607	Trout Creek - Headwaters to Little	ABCG	50	75	5.0	6.0-	1	33	260		
001600	River (Scenic)	1 2 6 5 6		7.5	7.0	8.5	<u> </u>		260		
081608	Big Creek - Headwaters to Little River (Scenic)	ABCDG	50	75	5.0	6.0- 8.5	1	33	260		
081609	Hemphill Creek - Headwaters to	ABC	50	75	5.0	6.0-	1	33	260		
	Catahoula Lake (includes Hair					8.5					
	Creek)			ļ	ļ						
081610	Old River - Catahoula Lake to Little River	ABC	250	75	5.0	6.0 - 8.5	1	32	500		
081611	Bayou Funny Louis-Headwaters to	ABC	50	75	5.0	6.0-	1	33	260		
001011	Little River	1150		"	3.0	8.5	-		200		
	PEARL RIVER BASIN (09)										
090101	Pearl River - Mississippi State Line to Pearl River Navigation Canal	ABC	20	15	5.0	6.0- 8.5	1	32	180		
090102	East Pearl River - from confluence	ABC	20	15	5.0	6.0-	1	32	180		
	with Holmes Bayou to Interstate			}		8.5					
	Hwy. 10										
090103	East Pearl River - From Interstate Hwy. 10 to Lake Borgne (Estuarine)	ABC	N/A	N/A	4.0	6.0- 8.5	1	35	N/A		
090104	Peters Creek - Headwaters to Pearl	ABC	20	30	5.0	6.0-	1	30	150		
	River					8.5					
090105	Pearl River Navigation Canal - from	ABC	20	15	5.0	6.0-	1	32	180		
090106	Pools Bluff to Lock No. 3 Holmes Bayou - from the Pearl	ABCG	20	15	5.0	8.5 6.0-	1	32	180		
070100	River to the West Pearl River	ABCO	20	15] 5.0	8.5	'	22	100		
	(Scenic)										
090107	Pearl River - from Pearl River	ABC	20	15	5.0	6.0-	1	32	180		
000201	Navigation Canal to Holmes Bayou West Pearl River - from Headwaters	ARCC	20	1.5	5.0	8.5	1	22	100		
090201	to confluence with Holmes Bayou	ABCG	20	15	5.0	6.0- 8.5	1	32	180		
	(Scenic)										

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		Criteria								
			CL	SO ₄	DO	pН	В	°C	TDS	
		Designated					A			
Code	Stream Description	Uses ABCG	90	20	5.0	6.0-	. C	32	235	
090202	West Pearl River - from confluence with Holmes Bayou to the Rigolets (includes east and west mouths) (Scenic)	ABCG	90	20	3.0	8.5	1	32	255	
090202 -5126	Morgan River - from Porters River to its confluence with West Pearl River (Scenic)	ABCG	90	20	5.0	6.0- 8.5	1	32	235	
090203	Lower Bogue Chitto - from Pearl River Navigation Canal to Wilsons Slough	АВС	15	10	5.0	6.0- 8.5	1	32	105	
090204	Pearl River Navigation Canal below Lock No. 3	ABC	15	10	5.0	6.0- 8.5	1	32	105	
090205	Wilson Slough - all of that portion of the slough (bayou) lying within the boundaries of St. Tammany Parish (Scenic)	ABCG	15	10	5.0	6.0- 8.5	1	32	105	
090206	Bradley Slough - all of that portion of the slough (bayou) lying within the boundaries of St. Tammany Parish (Scenic)	ABCG	15	10	5.0	6.0- 8.5	1	32	105	
090207	Middle Pearl River and West Middle Pearl River - from West Pearl to Little Lake	АВС	90	20	5.0	6.0- 8.5	1	32	235	
090207 -5112	Morgan Bayou - Headwaters near I- 10 to confluence with Middle River	ABC	90	20	5.0	6.0- 8.5	1	32	235	
090208	Little Lake (Estuarine)	АВС	N/A	N/A	4.0	6.0- 8.5	1	32	N/A	
090301	Pushepatapa Creek - Headwaters and tributaries from the Mississippi state line to the Pearl River flood plain (Scenic)	ABCG	15	12	5.0	6.0- 8.5	1	35	105	
090401	Bogue Lusa Creek - Headwaters to Pearl River	АВС	30	45	5.0	6.0- 8.5	1	32	300	
090501	Bogue Chitto River - from Mississippi State Line to Pearl River Navigation Canal (Scenic)	ABCG	15	10	5.0	6.0- 8.5	1	35	105	
090502	Big Silver Creek - Headwaters to the Bogue Chitto River	ABC	15	10	5.0	6.0- 8.5	1	35	105	
090503	Little Silver Creek - Headwaters to the Bogue Chitto River	ABC	15	10	5.0	6.0- 8.5	1	35	105	
090504	Lawrence Creek - Headwaters to the Bogue Chitto River	АВС	15	10	5.0	6.0- 8.5	1	35	105	
090505	Bonner Creek - Headwaters to the Bogue Chitto River	АВС	15	10	5.0	6.0- 8.5	1	35	105	
090506	Thigpen Creek - Headwaters to the Bogue Chitto River	ABC	15	10	5.0	6.0- 8.5	1	35	105	

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					Criteria				
Yar.			CL	SO ₄	DO	pН	В	°C	TDS
		Designated					A		
Code	Stream Description	Uses					C		* X.
100101	RED RIVER BASIN (10)	ADCDE	105	110			 , -	24	700
100101	Red River - Arkansas State Line to	ABCDF	185	110	5.0	6.0-	1	34	780
100201	Alexandria (Hwy. 165) Red River - Alexandria (Hwy. 165)	ABCD	185	110	5.0	8.5 6.0-	 	34	780
100201	to Old River Control Structure	ABCD	163	110	3.0	8.5	1	34	/80
	Diversion Channel					0.5			
100202	Little River - Headwaters to Old	ABC	250	75	5.0	6.0-	1	32	500
100202	River near Marksville, Louisiana	I NBC	230	,,,] 5.0	8.5	1] 32	300
100203	Old River & Associated	ABC	250	75	5.0	6.0-	1	32	500
	Waterbodies (Spring Bayou Wildlife			, -		8.5	-		
	Management Area)			<u> </u>					
100301	Black Bayou - Texas State Line to	ABCF	250	25	5.0	6.0-	1	33	500
	LA Hwy. 1 at Black Bayou Lake					8.5			
100302	Black Bayou Lake - from Hwy. 1 to	ABC	250	25	5.0	6.0-	1	33	500
	Spillway					8.5			
100303	Black Bayou - from Spillway at	ABC	250	25	5.0	6.0-	1	33	500
	Black Bayou Lake to Twelve Mile	i				8.5			
100201	Bayou	1 2 2 2 5	ļ.,				<u> </u>		
100304	Twelve Mile Bayou - Origin to Red	ABCDF	175	75	5.0	6.0-	1	32	500
100205	River	D.I.	175	75	F1.43	8.5	1-	22	500
100305	Mahlin Bayou/McCain Creek - origin to confluence with Twelve	BL	175	75	[14]	6.0- 8.5	2	32	500
	Mile Bayou	İ	•			8.5			
100306	Kelly Bayou - Arkansas State Line	ABCF	90	40	5.0	6.0-	 1	33	665
100500	to Black Bayou	ABCI	^0	70	3.0	8.5	1 1))	003
100307	Caddo Lake and James Bayou -	ABCDF	120	35	5.0	6.0-	1	34	325
10020,	Texas State Line to Caddo Lake		1			8.5	"		"
100308	Paw Paw Bayou and Tributaries -	ABCDF	75	25	5.0	6.0-	1	32	150
	Texas State Line to Cross Lake					8.5			
100309	Cross Bayou - Texas State Line to	ABCDF	75	25	5.0	6.0-	1	32	150
	Cross Lake		ļ			8.5			
100310	Cross Lake	ABCDF	75	25	5.0	6.0-	1	32	150
			ļ			8.5			
100401	Bayou Bodcau - from Arkansas	ABCF	250	75	5.0	6.0-	1	32	800
	State Line to Red Chute Bayou at					8.5	ļ		
	Cypress Bayou junction (includes						l		
100402	Bodcau Lake)	A D C	250	75	F143	60	1	22	900
100402	Red Chute Bayou - from Cypress Bayou junction to Flat River	ABC	250	75	[14]	6.0- 8.5	1	32	800
100403	Cypress Bayou - Headwaters to	ABCDF	100	25	5.0	6.0-	1	32	300
100403	Cypress Bayou Reservoir	ABCDI	100	23] 5.0	8.5	1	J2	500
100404	Cypress Bayou Reservoir	ABCDF	100	25	5.0	6.0-	1	32	300
100-10-1	Syptoss Dayou Reservoir	1.5051	100		3.5	8.5	'		
100405	Black Bayou (including Black	ABCDF	100	25	5.0	6.0-	1	32	300
	Bayou Reservoir)			_		8.5	1		

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						Criteria			
			CL	SO ₄	DO	pН	В	°C	TDS
Code	Stream Description	Designated Uses				·	A C		
100406	Flat River - Headwaters to Loggy	ABC	250	75	5.0	6.0-	1	32	300
	Bayou					8.5			
100501	Bayou Dorcheat - Arkansas State	ABCFG	250	25	5.0	6.0-	1	33	440
	Line to Lake Bistineau (Scenic)					8.5			
100502	Lake Bistineau	ABCF	250	25	5.0	6.0-	1	33	440
						8.5			
100503	Caney Creek - Headwaters to Cow	ABCF	250	75	5.0	6.0-	1	32	500
100504	Branch (excluding Caney Lake)	ADCE	250	75	5.0	8.5	<u> </u>	22	500
100504	Caney Lake	ABCF	250	/3	5.0	6.0- 8.5	1	32	500
100505	Loggy Bayou - Lake Bistineau Dam	ABCF	75	35	5.0	6.0-	1	32	250
100505	to Flat River	11201	"		3.0	8.5	1	J.	250
100506	Loggy Bayou - Flat River to Red	ABCF	250	75	5.0	6.0-	1	32	800
	River					8.5			
100601	Bayou Pierre - Headwaters to	ABCF	150	75	5.0	6.0-	1	32	500
	Sawing Lake		<u> </u>			8.5			
100602	Boggy Bayou - Headwaters to	ABCF	150	75	5.0	6.0-	1	32	500
	Wallace Lake					8.5			
100603	Wallace Lake	ABCF	150	75	5.0	6.0-	1	32	500
100604	W. H D W. H I al	ADCE	150	75	5.0	8.5	ļ ,	22	500
100604	Wallace Bayou - Wallace Lake to Bayou Pierre	ABCF	150	75	5.0	6.0- 8.5	1	32	500
100605	Lake Edwards and Smithport Lake	ABCF	250	75	5.0	6.0-	1	32	500
100003	bake Lawards and Simmport Lake	ABCI	230	, , ,	3.0	8.5	'	52	300
100606	Bayou Pierre - from Sawing Lake to	ABCF	150	75	5.0	6.0-	1	32	500
	Red River					8.5			
100701	Black Lake Bayou - Headwaters to	ABCF	26	9	5.0	6.0-	1	32	79
	Webster-Bienville Parish Line				<u> </u>	8.5			
100702	Black Lake Bayou -	ABCFG	26	9	5.0	6.0-	1	32	79
	Webster-Bienville Parish Line to					8.5			
100500	Black Lake (Scenic)	1 2 6 2	26	-		-		22	
100703	Black Lake and Clear Lake	ABCF	26	9	5.0	6.0- 8.5	1	32	79
100704	Kepler Creek - Headwaters to	ABCF	25	25	5.0	6.0-	1	32	79
100704	Kepler Lake	ABCI	23	23	3.0	8.5	1	32	19
100705	Kepler Lake	ABCF	25	25	5.0	6.0-	1	32	79
	r					8.5	•		. ,
100706	Kepler Creek - Kepler Lake to	ABCF	25	25	5.0	6.0-	1	32	79
	Black Lake Bayou					8.5	<u> </u>		
100707	Castor Creek - Headwaters to Black	ABC	26	9	5.0	6.0-	1	32	79
	Lake Bayou					8.5			
100708	Unnamed Tributary to Castor Creek	ВС	26	9	[2]	6.0-	2	32	79
100700	near Town of Castor	100	-			8.5		22	
100709	Grand Bayou - Headwaters to Black	ABC	26	9	5.0	6.0-	1	32	79
]	Lake Bayou	l		1	1	8.5		i i	

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			†: -H			Criteria		·	
			CL	SO ₄	DO	pН	В	°C	TDS
Code	Stream Description	Designated Uses					A C		
100710	Unnamed Tributary to Grand Bayou near Town of Hall Summit	ВС	26	9	[2]	6.0- 8.5	2	32	79
100801	Saline Bayou - from its origin near Arcadia to La. Hwy. 156 in Winn Parish (Scenic)	ABCFG	110	20	5.0	6.0- 8.5	1	32	250
100802	Saline Lake	ABCF	110	20	5.0	6.0- 8.5	1	32	250
100803	Saline Bayou - from Saline Lake to Red River	ABCF	110	20	5.0	6.0- 8.5	1	32	250
100804	Unnamed Tributary to Saline Bayou near Town of Arcadia	ВС	110	20	[2]	6.0- 8.5	2	32	250
100901	Nantaches Creek - Headwaters to Nantaches Lake	ABCF	25	25	5.0	6.0- 8.5	1	32	100
100902	Nantaches Lake	ABCF	25	25	5.0	6.0- 8.5	1	32	100
100903	Bayou Nantaches - Nantaches Lake to Red River	ABCF	25	25	5.0	6.0- 8.5	1	32	100
101001	Sibley Lake	ABCDF	25	25	5.0	6.0- 8.5	1	32	100
101101	Cane River - above Natchitoches to Red River	ABCDF	25	25	5.0	6.0- 8.5	1	32	100
101102	Bayou Kisatchie - Headwaters to entrance into Kisatchie National Forest	ABCF	25	25	5.0	6.0- 8.5	1	32	100
101103	Bayou Kisatchie - entrance into Kisatchie National Forest to Old River (Scenic)	ABCFG	25	25	5.0	6.0- 8.5	1	32	100
101201	Cotile Reservoir	АВС	50	25	5.0	6.0- 8.5	1	32	200
101301	Rigolette Bayou - Headwaters to Red River	ABCF	25	25	5.0	6.0- 8.5	1	32	100
101302	latt Lake	ABCF	25	25	5.0	6.0- 8.5	1	32	100
101303	latt Creek - Headwaters to latt Lake	ABCF	25	25	5.0	6.0- 8.5	1	32	100
101401	Buhlow Lake (Pineville)	АВС	100	50	5.0	6.0- 8.5	1	32	250
101501	Big Saline Bayou - Catahoula Lake to Saline Lake	АВС	250	75	5.0	6.0- 8.5	1	32	500
101502	Saline Lake	АВС	250	75	5.0	6.0- 8.5	1	32	500
101503	Old Saline Bayou - from Saline Lake to Red River	АВС	250	75	5.0	6.0- 8.5	1	32	500
101504	Saline Bayou - Larto Lake to Saline Lake (Scenic)	ABCG	45	10	5.0	6.0- 8.5	1	32	165

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			Criteria							
			CL	SO ₄	DO	pН	В	°C	TDS	
Code	Stream Description	Designated Uses					A C	-		
101505	Larto Lake	ABC	45	10	5.0	6.0-	1	32	165	
101506	Big Creek - Headwaters to Saline	АВС	45	10	5.0	8.5 6.0-	1	32	165	
101601	Lake Bayou Cocodrie - from Little Cross	ABCFG	250	75	5.0	8.5 6.0-	1	32	500	
101602	Bayou to Wild Cow Bayou (Scenic) Cocodrie Lake	ABC	250	75	5.0	8.5 6.0-	1	32	500	
101603	Lake St. John	ABC	250	75	5.0	8.5 6.0-	1	32	500	
101604	Lake Concordia	ABC	250	75	5.0	8.5 6.0-	1	32	500	
101605	Bayou Cocodrie - Lake Concordia	ABC	250	75	5.0	8.5 6.0- 8.5	1	32	500	
101606	to Highway 15 Bayou Cocodrie - Wild Cow Bayou to Red River	АВС	250	75	5.0	6.0- 8.5	1	32	500	
101607	Bayou Cocodrie - Highway 15 to Little Cross Bayou SABINE RIVER BASIN (11)	BL	250	75	[13]	6.0- 8.5	2	32	500	
110101	Toledo Bend Reservoir - Texas-Louisiana Line to Toledo Bend Dam	ABCDF	120	60	5.0	6.0- 8.5	1	34	500	
110201	Sabine River - Toledo Bend Dam to Confluence with Old River below Sabine Island Wildlife Management Area	ABCD	120	60	5.0	6.0- 8.5	1	33	500	
110202	Pearl Creek - from its origin to its entrance into Sabine River (Scenic)	ABCDG	120	60	5.0	6.0- 8.5	1	33	500	
110301	Sabine River - Confluence with Old River below Sabine Island Wildlife Management Area to Sabine Lake (Estuarine)	АВС	N/A	N/A	4.0	6.0- 8.5	1	35	N/A	
110302	Black Bayou - from boundary between segments 1103 and 1106 to Sabine Lake (Estuarine)	ABC	N/A	N/A	4.0	6.0- 8.5	1	32	N/A	
110303	Sabine Lake (Estuarine)	ABCE	N/A	N/A	4.0	6.0- 8.5	4	35	N/A	
110304	Sabine Pass (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
110401	Bayou Toro - Headwaters to La. Hwy. 473	ABC	25	25	5.0	6.0- 8.5	1	32	150	
110402	Bayou Toro - La. Hwy. 473 to its entrance into Sabine River	ABC	25	25	5.0	6.0- 8.5	1	32	150	
110501	West Anacoco Creek - Headwaters to Vernon Lake	АВС	15	10	5.0	6.0- 8.5	1	32	90	

A - primary contact recreation; B - secondary contact recreation; C - propagation of fish and wildlife; D - drinking water supply;

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			CL	SO ₄	DO	рH	В	°C	TDS
Code	Stream Description	Designated Uses					1 2		
110502	East Anacoco Creek - Headwaters to Vernon Lake	АВС	15	10	5.0	6.0- 8.5		32	90
110503	Vernon Lake	ABC	15	10	5.0	6.0- 8.5	1	32	90
110504	Bayou Anacoco - Vernon Lake to Anacoco Lake	АВС	15	10	5.0	6.0- 8.5	1	32	90
110505	Anacoco Lake	АВС	15	10	5.0	6.0- 8.5	1	32	90
110506	Bayou Anacoco - from Anacoco Lake to Cypress Creek	АВС	15	10	5.0	6.0- 8.5	1	32	90
110507	Bayou Anacoco - from Cypress Creek to Sabine River Confluence	АВС	150	200	5.0	6.0- 8.5	1	32	1,000
110601	Vinton Waterway - Vinton to Intracoastal Waterway (Estuarine)	АВС	N/A	N/A	4.0	6.0- 8.5	1	35	N/A
110602	Black Bayou - Intracoastal Waterway to boundary between segments 1103 and 1106 (Estuarine)	АВС	N/A	N/A	4.0	6.0- 8.5	1	35	N/A
110701	Sabine River Basin Coastal Bays and Gulf Waters to the State three-mile limit	ABCE	N/A	N/A	5.0	6.5- 9.0	4	32	N/A
120101	TERREBONNE BASIN (12) Bayou Portage	ABC	25	25	5.0	6.0-	1	32	200
120101	Bayou Fortage	ABC	23	23	5.0	8.5	1	32	200
120102	Bayou Poydras	АВС	250	75	5.0	6.0- 8.5	1	32	500
120103	Bayou Choctaw	ABC	250	75	5.0	6.0- 8.5	1	32	500
120104	Bayou Grosse Tete	ABC	25	25	5.0	6.0- 8.5	1	32	200
120105	Chamberlin Canal	ABC	250	75	5.0	6.0- 8.5	1	32	500
120106	Bayou Plaquemine - Plaquemine Lock to Intracoastal Waterway	ABC	250	75	5.0	6.0- 8.5	1	32	500
120107	Upper Grand River and Lower Flat River - Headwaters to Intracoastal Waterway	АВС	250	75	5.0	6.0- 8.5	1	32	500
120108	False River	АВС	25	25	5.0	6.0- 8.5	1	32	200
120109	Intracoastal Waterway - Morgan City to Port Allen Route - Port Allen Locks to Bayou Sorrel Locks	АВС	60	40	5.0	6.0- 8.5	1	32	300
120110	Bayou Cholpe - Headwaters to Bayou Choctaw	АВС	25	25	5.0	6.0- 8.5	1	32	200
120111	Bayou Maringouin - Headwaters to East Atchafalaya Basin Levee	АВС	25	25	5.0	6.0- 8.5	1	32	200

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			CL	SO ₄	DO	pН	В	°C	TDS	
Code	Stream Description	Designated Uses	!				A C			
120112	Bayou Fordoche - Headwaters near	ABC	25	25	5.0	6.0-	1	32	200	
	Morganza to Bayou Grosse Tete					8.5				
120201	Lower Grand River and Belle River	ABC	60	40	5.0	6.0-	1	32	300	
	- Bayou Sorrel Lock to Lake					8.5		Ì		
	Palourde (includes Bay Natchez,								ĺ	
	Lake Natchez, Bayou Milhomme,					,				
120202	and Bayou Long)	A D C D	9.5	40	5.0	(0	1	22	500	
120202	Bayou Black - Intracoastal Waterway to Houma	ABCD	85	40	5.0	6.0- 8.5	1	32	500	
120203	Bayou Boeuf - Lake Palourde to	ABCD	250	75	5.0	6.0-	1	32	500	
120203	boundary between segments 1202	ABCD	250	/3	3.0	8.5	. 1	32] 500	
	and 1204			ļ		0.5		ļ		
120204	Lake Verret and Grassy Lake	ABC	100	75	5.0	6.0-	1	32	350	
						8.5				
120205	Lake Palourde	ABCD	100	75	5.0	6.0-	1	32	350	
						8.5				
120206	Grand Bayou & Little Grand Bayou	ABC	60	40	5.0	6.0-	1	32	300	
120207	- Headwaters to Lake Verret Thibodaux Swamp (Pointe Au	ВС	[5]	[5]	[5]	8.5	2		[5]	
120207	Chene Swamp) - Forested wetland	ВС	[5]	[5]	[5]	[5]		[5]		
	in Lafourche and Terrebonne			}	<u> </u>			[-]	}	
	Parishes, 6.2 miles (10 km)									
	southwest of Thibodaux, La., east of	ļ.		1	}]		ļ]	
	Terrebonne-Lafourche Drainage									
	Canal, and north of Southern Pacific									
100001	Railroad	1.00	5.10	-				20	1.250	
120301	Bayou Terrebonne - Thibodaux to	ABC	540	90	5.0	6.0- 8.5	1	32	1,350	
	boundary between segments 1203 and 1206, at Houma					0.5			į	
120302	Company Canal - from Bayou	ABCDF	500	150	5.0	6.5-	1	32	1,000	
12000	Lafourche to Intercoastal Waterway					9.0	_		1,000	
120303	Lake Long	ABC	500	150	5.0	6.5-	1	32	1,000	
						9.0				
120304	Intracoastal Waterway - Houma to	ABCDF	250	75	5.0	6.5-	1	32	500	
	Larose					9.0				
120401	Bayou Penchant - Bayou Chene to	ABCG	500	150	5.0	6.5-	1	32	1,000	
120402	Lake Penchant Bayou Chene - from Intracoastal	ABC	250	75	5.0	9.0	1	22	500	
120402	Waterway to Bayou Penchant	ABC	230	13	3.0	6.5- 8.0	I	32	500	
120403	Intracoastal Waterway - Bayou	ABCDF	250	75	5.0	6.5-	1	32	500	
120100	Boeuf Locks to boundary between	112021		, ,	5.0	8.5	•			
	segments 1204 and 1203, at Houma			}						
	(includes segments of Bayous			'						
	Boeuf, Black and Chene)					ļ				
120404	Lake Penchant	ABC	500	150	5.0	6.5-	1	32	1,000	
						9.0		١		

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Code		Designated Stream Description Uses	Criteria							
	Stream Description		CL	SO ₄	DO	pН	B A C	°C	TDS	
120405	Lake Hache, Lake Theriot	ABC	500	150	5.0	6.0- 8.5	1	32	1,000	
120406	Lake de Cade	АВСЕ	N/A	N/A	5.0	6.0- 9.0	4	35	N/A	
120501	Bayou Grand Caillou - Houma to Bayou Pelton	АВС	500	150	5.0	6.0- 8.5	1	32	1,000	
120502	Bayou Grand Caillou - from Bayou Pelton to the boundary between segments 1205 and 1207 (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
120503	Bayou Petit Caillou - from Bayou Terrebonne to Klondyke Road Bridge	АВСЕ	500	150	5.0	6.0- 9.0	4	32	1,000	
120504	Bayou Petit Caillou - Klondyke Road Bridge to boundary between segments 1205 and 1207 (Estuarine)	ABCE	N/A	N/A	4.0	6.0- 9.0	4	32	N/A	
120505	Bayou Du Large - from Houma to Marmande Canal	ABC	500	150	5.0	6.5- 9.0	1	32	1,000	
120506	Bayou Du Large - Marmande Canal to the boundary between segments 1205 and 1207 (Estuarine)	АВСЕ	N/A	N/A	4.0	6.0- 9.0	4	35	N/A	
120507	Bayou Chauvin - Ashland Canal to Lake Boudreaux (Estuarine)	АВС	N/A	N/A	4.0	6.5- 9.0	1	32	N/A	
120508	Houma Navigation Canal - Bayou Pelton to the boundary between segments 1205 and 1207 (Estuarine)	АВСЕ	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	
120509	Houma Navigation Canal - Houma to Bayou Pelton	ABCD	500	150	5.0	6.0- 8.5	1	32	1,000	
120601	Bayou Terrebonne - Houma to Company Canal (Estuarine)	АВС	445	105	4.0	6.0- 9.0	1	32	1,230	
120602	Bayou Terrebonne - from Company Canal to Humble Canal (Estuarine)	АВСЕ	5,05 5	775	4.0	6.5- 9.0	4	32	10,000	
120603	Company Canal - from Intracoastal Waterway to Bayou Terrebonne	АВС	500	150	5.0	6.5- 9.0	1	32	1,000	
120604	Bayou Blue - Intracoastal Waterway to boundary between segments 1206 and 1207	АВС	445	105	5.0	6.5- 9.0	1	32	1,000	
120605	Bayou Pointe Au Chien - Source to boundary between segments 1206 and 1207	АВС	445	105	5.0	6.5- 9.0	1	32	1,000	
120606	Bayou Blue - Grand Bayou Canal to boundary between segments 1206 and 1207 (Estuarine)	АВС	5,05 5	775	4.0	6.5- 9.0	1	32	10,000	
120701	Bayou Grand Caillou - boundary between segments 1205 and 1207 to Caillou Bay (Estuarine)	АВСЕ	N/A	N/A	4.0	6.5- 9.0	4	35	N/A	

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Code	Stream Description	Designated Uses	10.1				A C		
120702	Bayou Petit Caillou - from boundary between segments 1205 and 1207 to Houma Navigation Canal (Estuarine)	АВСЕ	N/A	N/A	4.0	6.0- 9.0	4	32	N/A
120703	Bayou Du Large - from the boundary between segments 1205 and 1207 to Caillou Bay (Estuarine)	АВСЕ	N/A	N/A	4.0	6.0- 9.0	4	35	N/A
120704	Bayou Terrebonne - from Humble Canal to Lake Barre (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A
120705	Houma Navigation Canal - from the segment boundary between 1205 and 1207 to Terrebonne Bay (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A
120706	Bayou Blue - Boundary between segments 1206 and 1207 to Lake Raccourci (Estuarine)	ABCE	N/A	N/A	4.0	6.5- 9.0	4	35	N/A
120707	Lake Boudreaux	АВСЕ	N/A	N/A	5.0	6.5- 9.0	4	35	N/A
120708	Lost Lake, Four League Bay	АВСЕ	N/A	N/A	5.0	6.0- 9.0	4	35	N/A
120709	Bayou Petite Caillou - from Houma Navigation Canal to Terrebonne Bay	ABCE	N/A	N/A	5.0	6.0- 9.0	4	32	N/A
120801	Caillou Bay	АВСЕ	N/A	N/A	5.0	6.5- 9.0	4	35	N/A
120802	Terrebonne Bay	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A
120803	Timbalier Bay	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A
120804	Lake Barre	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A
120805	Lake Pelto	ABCE	N/A	N/A	5.0	6.5- 9.0	4	35	N/A
120806	Terrebonne Basin Coastal Bays and Gulf Waters to the State three-mile limit	ABCE	N/A	N/A	5.0	6.5- 9.0	4	32	N/A

ENDNOTES:

- [1] Designated Naturally Dystrophic Waters Segment; Seasonal DO Criteria: 5.0 mg/L November April, 3.5 mg/L May October.
- [2] Designated Intermittent Stream; Seasonal DO Criteria: 5.0 mg/L November April, 2.0 mg/L May October; Seasonal Water Uses: All uses November April, No uses May October.
- [3] Designated Naturally Dystrophic Waters Segment; Seasonal DO Criteria: 5.0 mg/L December February, 3.0 mg/L March November.
- [4] Designated Man-made Water body; Seasonal DO Criteria: 4.0 mg/L November March, 2.5 mg/L April October; Subcategory Fish and Wildlife Use, Blue Crab Use.
- [5] Designated Naturally Dystrophic Waters Segment Not Available (N/A); the following criteria are applicable:
 - (a) No more than 20% decrease in naturally occurring litter fall or stem growth;
 - (b) No significant decrease in the dominance index or stem density of bald cypress;
 - (c) No significant decrease in faunal species diversity and no more than a 20% decrease in biomass.
- [6] Site-specific Seasonal DO Criteria: 5 mg/L January April, 3.5 mg/L May December.
- [7] Designated Man-made Water body; Cl, SO₄, and TDS levels will not cause acute toxicity to the limited wildlife and aquatic life community established in the designated Monte Sano Bayou subsegment. Aquatic Life Acute Criteria will apply and Human Health Criteria will be calculated with Secondary Contact Recreation Criteria and 6.5 g/day fish consumption rate.
- [8] The temperature differential limit of 2.8°C is not applicable to this water body subsegment.
- [9] Site-specific DO Criteria.
- [10] Scenic River Segment limited to: Junction with Whiskey Chitto Creek to confluence with Marsh Bayou.
- [11] Scenic River Segment limited to: Confluence with Marsh Bayou to Ward 8 Park in Calcasieu Parish above Moss Bluff.
- [12] Scenic River Segment limited to: Confluence of East and West Prong to LA Hwy. 437, north of Covington.
- [13] Site-specific Seasonal DO Criteria: 3mg/L November-April, 2 mg/L May-October.
- [14] Site-specific Seasonal DO Criteria: 5mg/L November-April, 3mg/L May-October.
- [15] Site-specific Seasonal DO Criteria: 3 mg/l June and July, 4.5 mg/l August, 5 mg/l September through May. These seasonal criteria may be unattainable during or following naturally occurring high flow (when the gage at the Felsenthal Dam exceeds 65 feet and also for the two weeks following the recession of flood waters below 65 feet), which may occur from May through August. Naturally occurring conditions that fail to meet criteria should not be interpreted as violations of the criteria.
- [16] Designated Naturally Dystrophic Waters Segment; Seasonal DO Criteria: 5 mg/l December February, 3 mg/l March November.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2074(B)(1).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Water Resources, LR 15:738 (September 1989), amended LR 17:264 (March 1991), LR 20:431 (April 1994), LR 20:883 (August 1994), LR 21:683 (July 1995), LR 22:1123 (November 1996), LR 24:1926 (October 1998), amended by the Office of Environmental Assessment, Environmental Planning Division LR 25:2401 (December 1999).